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RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1849.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1849.)

STORAGE

APPENDIX.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

1849.

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ROYAL OBSERVATORY, GREENWICH.

INDICATIONS

OF

MAGNETOMETERS.

1849.

For description of the three Magnetometers, the method of observing by the Telescope, and the method of reducing the observations, the reader is referred to the *Greenwich Magnetical and Meteorological Observations* for 1847, Introduction, page i to xlii; and to corresponding parts of the preceding Volumes.

During the year 1849, Telescope-Observations of the Magnetometers have usually been made four times every day (except Sundays); but though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite, by which the DECLINATION MAGNET is observed, corresponding to the Astronomical Meridian, on January 6, April 21, June 16, 22, July 7, September 25, October 18, 19, November 1, and December 6.

Observations of the angle of torsion of the HORIZONTAL FORCE MAGNETOMETER were made on 1848, December 29 and 30. The angle determined was 42°. 53′, being 9′ larger than that determined last year. The angle used in the reduction of the observations is 42°. 44′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on 1848, December 29; and the general conclusion was, that the scale-readings were nearly identical and had nearly the usual value when the reading of the torsion-circle was 144°. 30′ (marked end West); and 230°. 0′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) is 144°. 30′.

The number used for the variation of horizontal force for a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·0020789.

The correction for temperature is $0 \cdot 00009050\ (t-32^\circ) + 0 \cdot 000000626\ (t-32^\circ)^2$. This is not applied to any of the results of observation.

Observations of the times of vibration of the VERTICAL FORCE MAGNETOMETER in a vertical plane have usually been made three times a week. The adopted time of vibration in the month of January was $24^s \cdot 3$; in February and till March 5 it was $23^s \cdot 1$; and from March 6 to the end of the year it was $22^s \cdot 6$.

Observations for the time of vibration in a horizontal plane were made in 1848, July, and the time was found to be $24^s \cdot 0164$ from 7000 vibrations. The values of the disturbing force, in terms of the whole vertical force, for one division of the scale, are inferred to be 0·000600 for January; 0·000664 for February and till March 5; and 0·000694 from March 6 till the end of the year; and these numbers are used in their respective periods.

The correction for temperature is $0 \cdot 00018979 \times (t-32^\circ) + 0 \cdot 0000007257 \times (t-32^\circ)^2$. This is not applied to any of the results of observation.

The methods adopted in the use of the Photographic Apparatus, in the determinations of zeros both for time and for magnetic indications, and in the translation into numbers of the indications given by the Photographic Traces, for arbitrary times, are in every respect the same as those described in the Addendum to the Introduction to the Greenwich Magnetical and Meteorological Observations, 1847, pages lxxxiii to xc.

It is proper, however, to mention that, in measuring the ordinates of the Vertical Force Curves, the same difficulty that is mentioned in the volume for 1848 has still occasionally been felt. Occasionally, without any apparent cause, the curve is dislocated; one part being raised above or depressed below the contiguous part, in the direction of the ordinate, by a considerable quantity. In some instances this has been traced to a possible disturbance during the operation of changing the lamps (a cause of disturbance which, however, has nearly ceased to exist since 1849,

August 18, when the camphine lamps were exchanged for lamps of coal-gas charged with the vapour of coal-naphtha), or shutting the doors: in other cases no obvious cause can be assigned. In all cases this displacement is accompanied with vibration, the original position being at the extremity of the arc of vibration, and the new position being at the center of the arc: shewing that there has been no want of delicacy of the movement, and that the change has been precisely the same as would be caused by the quiet application of a small weight upon one end of the magnet. To combine these dislocated parts, a small machine has been prepared, by means of which a piece of tracing-paper can be slid, parallel to itself, in the direction of the ordinates: and the various portions of the curve are traced on this paper in such a manner that their ends are properly joined. This traced curve is then used for the measure of the ordinates. I conceive that these measures, for a single sheet, are perfectly and accurately comparable: although it is evident that the results on one sheet cannot always be compared with those on another.

In general the ordinates of the photographic curves have been measured only at the times of the maximum and minimum values; but, on days in which the unsteadiness of the magnets was strongly marked, the ordinates have been measured at well-marked bends of the curve: so that a reader, laying down a succession of points by means of the given times as abscissæ and the given measures of force as ordinates, and connecting these points by straight lines, will very nearly reproduce the original curves.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Jan. 2		Jan. 2		Jan. 2				
h m	° ′ ″	h m		h m			°	°
3. 38	22. 37. 15	3. 23	·1043	3. 30	·00904	3	44 ·0	44 ·5
15. 36	32. 15	5. 50	·1033	8. 45	·00800	9	41 ·0	41 ·0
23. 36	37. 0	7. 0	·1039	12. 12	·01043	21	29 ·0	29 ·0
		14. 55	·1057	22. 48	·00853			
		17. 40	·1053					
		19. 0	·1067					
		23. 7	·1035					
		23. 23	·1047					
Jan. 3		Jan. 3		Jan. 3				
1. 35	22. 41. 15	1. 32	·1032	0. 0	·00726	1	35 ·0	35 ·5
11. 6	30. 15	17. 15	·1049	11. 7	·00758	3	39 ·0	39 ·0
14. 30	38. 30	18. 30	·1041	22. 30	·00885	9	38 ·5	38 ·0
15. 10	33. 30	19. 22	·1063			21	35 ·0	35 ·0
23. 35	42. 30	21. 45	·1039					
		22. 50	·1033					
Jan. 4		Jan. 4		Jan. 4				
1. 33	22. 44. 0	0. 52	·1020	1. 12	·00810	1	41 ·5	41 ·5
4. 0	41. 45	2. 23	·1035	4. 50	·00978	3	39 ·5	39 ·5
4. 33	29. 30	4. 15	·1011	10. 35	·00893	9	41 ·0	41 ·5
5. 45	35. 0	5. 24	·1039	23. 6	·00985	21	37 ·0	37 ·5
8. 10	34 30	8. 42	·1019					
9. 0	22. 0	9. 29	·1040					
10. 25	32. 30	23. 0	·1023					
23. 34	39. 15							
Jan. 5		Jan. 5		Jan. 5				
0. 32	22. 41. 30	0. 3	·1022	0. 0	·00964	1	40 ·0	40 ·5
21. 44	31. 0	18. 24	·1048	3. 5	·00893	3	41 ·0	41 ·5
23. 55	37. 30	23. 33	·1025	5. 0	·00968	9	43 ·0	43 ·5
				19. 8	·00882	21	37 ·5	37 ·5
				23. 0	·00950			
Jan. 6		Jan. 6		Jan. 6				
0. 45	22. 39. 45	0. 10	·1025	1. 0	·01018	1	38 ·0	38 ·0
14. 50	30. 15	2. 28	·1044	8. 20	·00930	3	42 ·0	42 ·0
23. 45	37. 30	8. 25	·1033	12. 0	·01185	9	42 ·0	42 ·0
		13. 0	·1044	23. 18	·00950			
		13. 18	·1032					
		20. 3	·1048					
		22. 0	·1034					
Jan. 7		Jan. 7		Jan. 7				
1. 45	22. 41. 0	0. 0	·1034	0. 30	·00832	0	34 ·0	34 ·0
10. 8	34. 0	3. 7	·1047	6. 40	·00752	9	37 ·0	37 ·0
11. 18	27. 0	3. 40	·1039	15. 10	·00592	21	38 ·0	38 ·0
12. 10	34. 45	10. 14	·1047	23. 20	·00695			
13. 20	29. 45	11. 10	·1022					
14. 25	39. 45	11. 44	·1034					
14. 49	31. 45	12. 42	·1017					
15. 23	30. 0	13. 28	·1036					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Jan. 7		Jan. 7						
h m	° ′ ″	h m		h m			°	°
20. 0	22. 43. 0	13. 53	·1029					
21. 50	35. 0	14. 16	·1048					
22. 20	42. 0	14. 47	·1032					
		15. 0	·1059					
		15. 38	·1042					
		21. 51	·1007					
		23. 15	·1029					
Jan. 8		Jan. 8		Jan. 8				
0. 30	22. 46. 30	0. 27	·1033	0. 0	·00950	1	43 ·0	43 ·5
10. 40	34. 0	1. 8	·1012	1. 15	·00900	3	45 ·0	45 ·5
11. 0	25. 30	2. 56	·1023	3. 35	·00982	9	45 ·0	45 ·0
11. 12	24. 0		(†)	11. 0	·00840	21	43 ·5	43 ·5
12. 10	34. 0	7. 18	·1022	23. 0	·00967			
17. 10	33. 45	9. 54	·1018					
23. 24	37. 30	17. 37	·1041					
		22. 50	·1013					
Jan. 9		Jan. 9		Jan. 9				
0. 45	22. 42. 0	0. 30	·1022	0. 30	·01128	1	48 ·0	48 ·5
9. 20	32. 0		***	1. 38	·01090	3	51 ·0	51 ·0
9. 33	25. 30	2. 40	·1009	3. 23	·01168	9	50 ·0	50 ·5
10. 51	33. 30		***	9. 0	·01073	21	44 ·0	44 ·0
23. 15	40. 0	3. 21	·1023	11. 30	·01190			
			***	23. 30	·01030			
		5. 10	·1009					
			***					
		14. 0	·1033					
			***					
		14. 35	·1029					
		15. 23	·1044					
			***					
		21. 22	·1015					
			***					
		22. 10	·1021					
			***					
		23. 41	·1014					
Jan. 10		Jan. 10		Jan. 10				
2. 20	22. 39. 45	0. 0	·1015	0. 0	·01080	1	48 ·0	48 ·5
5. 30	32. 30		***	1. 50	·01032	3	48 ·0	48 ·5
6. 45	39. 45	0. 18	·1009	3. 30	·01060	9	48 ·0	48 ·0
7. 38	30. 30		***	5. 22	·00980	21	41 ·0	41 ·5
8. 12	36. 45	1. 10	·1021	12. 0	·00985			
8. 35	29. 30		***	13. 10	·01020			
21. 10	32. 30	1. 45	·1016	23. 0	·00923			
			***					
		2. 18	·1027					
			***					
		5. 25	·1015					
			***					
		7. 14	·1019					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^m in Göttingen Time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Jan. 10		Jan. 10						
h m	° ′ ″	h m		h m			°	°
23. 55	22. 39. 45	8. 10	·1043					
			***					
		8. 28	·1016					
			***					
		20. 8	·1036					
			***					
		23. 30	·1026					
Jan. 11		Jan. 11		Jan. 11				
3. 15	22. 42. 0	0. 15	·1025	0. 7	·01082	1	42 ·0	42 ·5
11. 7	28. 30		***	8. 0	·00990	3	44 ·0	44 ·5
23. 45	36. 30	2. 45	·1035	22. 30	·01015	9	43 ·0	43 ·0
			***			21	39 ·0	39 ·0
		7. 46	·1024					
			***					
		20. 33	·1049					
			***					
		23. 40	·1020					
Jan. 12		Jan. 12		Jan. 12				
1. 38	22. 40. 0	0. 0	·1019	0. 30	·00985	1	39 ·0	39 ·0
21. 15	31. 15	3. 5	·1046	3. 45	·00880	3	42 ·0	42 ·0
23. 55	37. 0	5. 12	·1029	6. 10	·00822	9	43 ·0	43 ·0
		15. 42	·1036	17. 18	·00814	21	43 ·5	43 ·5
			(†)	23. 0	·00845			
		22. 0	·1025					
		23. 30	·1020					
Jan. 13		Jan. 13		Jan. 13				
2. 38	22. 39. 30	0. 7	·1017	0. 20	·01035	1	48 ·0	48 ·0
15. 20	30. 30	1. 22	·1015	1. 20	·01010	3	52 ·5	52 ·5
18. 0	33. 30	1. 53	·1029	4. 30	·01150	9	52 ·5	52 ·5
20. 58	27. 30	3. 33	·1015	9. 30	·01097			
23. 6	35. 0	10. 50	·1026	15. 50	·01072			
		13. 38	·1019	23. 0	·01110			
		14. 3	·1030					
		21. 0	·1010					
		23. 6	·1016					
Jan. 14		Jan. 14		Jan. 14				
6. 40	22. 47. 0	0. 0	·1020	0. 40	·01345	1	53 ·0	53 ·5
6. 50	39. 0	1. 50	·1037	5. 50	·01310	9	50 ·0	50 ·5
7. 5	42. 0	3. 42	·1011	11. 40	·01618	21	41 ·0	41 ·0
7. 17	29. 30	4. 28	·1033	16. 20	·01300			
7. 33	42. 0	5. 54	·1019	20. 0	·01390			
11. 16	28. 0	6. 18	·1035	23. 0	·01440			
11. 42	37. 0	7. 7	·0997					
12. 2	18. 30	7. 25	·1033					
13. 0	34. 30	8. 23	·1007					
13. 15	22. 40	9. 0	·1021					
13. 21	28. 10	11. 20	·0986					
14. 18	19. 45	11. 43	·1004					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Jan. 14		Jan. 14						
h m	° ′ ″	h m		h m			°	°
15. 52	22. 39. 15	12. 0	·0986					
16. 50	23. 30	12. 13	·1001					
23. 38	40. 30	12. 46	·0980					
		12. 57	·1010					
		13. 22	·0976					
		17. 15	·1022					
		23. 15	·0997					
		23. 35	·1016					
Jan. 15		Jan. 15		Jan. 15				
2. 10	22. 47. 30	0. 13	·1010	0. 0	·01055	1	43 ·5	43 ·5
8. 54	36. 0	1. 33	·1046	2. 8	·01115	3	46 ·0	46 ·0
9. 18	25. 0	1. 56	·1016	3. 50	·00958	9	47 ·0	47 ·0
9. 47	31. 45	2. 15	·1045	7. 30	·01092	21	42 ·0	42 ·0
11. 0	28. 0	2. 48	·1019	10. 30	·00985			
12. 10	35. 0	4. 52	·1036	17. 0	·01170			
12. 50	29. 15	6. 16	·1009	23. 0	·01140			
14. 35	36. 0	6. 42	·1028					
15. 44	27. 0	7. 12	·0998					
17. 12	33. 0	9. 30	·1019					
21. 8	28. 45	11. 38	·1009					
23. 55	38. 0	12. 8	·1040					
		12. 38	·1016					
		23. 12	·1012					
Jan. 16		Jan. 16		Jan. 16				
0. 0	22. 38. 0	0. 15	·1019	0. 30	·00970	2	43 ·0	43 ·5
6. 10	42. 0		***	3. 7	·00860	3	45 ·0	45 ·0
6. 30	14. 15	2. 8	·1038	5. 17	·00933	9	49 ·0	49 ·0
6. 38	22. 0		***	6. 22	·01100	21	49 ·0	49 ·5
6. 42	18. 0	2. 40	·1018	7. 34	·00975			
6. 54	27. 45		***	9. 14	·01020			
7. 12	23. 50	3. 32	·1035	11. 45	·00852			
7. 39	48. 0		***	17. 0	·00795			
7. 45	30. 30	4. 32	·0997	23. 1	·00941			
8. 34	41. 0	4. 45	·1006					
10. 42	30. 0	5. 10	·1011					
12. 22	36. 45	5. 37	·1020					
22. 5	38. 0	6. 24	·0989					
23. 47	36. 30	6. 33	·1033					
		7. 5	·1022					
		7. 25	·1041					
		7. 40	·0968					
		8. 2	·1012					
		8. 22	·0996					
		10. 12	·1021					
		10. 50	·1000					
		20. 40	·1022					
		23. 22	·1003					
Jan. 17		Jan. 17		Jan. 17				
1. 58	22. 43. 0	0. 0	·1001	0. 0	·01290	1	51 ·0	51 ·0

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^m in Gottingen Time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Jan. 17		Jan. 17		Jan. 17				
h m	° ′ ″	h m		h m			°	°
21. 30	22. 31. 15	2 53	·0994	1. 23	·01198	3	53 ·0	53 ·5
23. 50	37. 30	19. 14	·1026	5. 7	·01300	9	54 ·0	54 ·0
		22. 53	·1006	9. 40	·01110	21	46 ·0	46 ·0
				13. 45	·01360			
				22. 30	·01225			
Jan. 18		Jan. 18		Jan. 18				
1. 3	22. 39. 0	0. 6	·1005	0. 0	·01352	1	47 ·0	47 ·5
21. 53	29. 30	3. 22	·1017	3. 50	·01050	3	51 ·0	51 ·0
23. 30	33. 30	6. 58	·1015	15. 10	·01100	9	51 ·0	51 ·0
		20. 0	·1029	23. 0	·01263	21	50 ·0	50 ·0
		23. 42	·0997					
Jan. 19		Jan. 19		Jan. 19				
2. 37	22. 41. 0	1. 0	·0999	0. 0	·01370	1	52 ·0	52 ·0
21. 30	28. 30	19. 22	·1028	4. 0	·01150	3	54 ·0	54 ·0
23. 50	34. 15	23. 20	·0998	14. 40	·01283	9	54 ·0	54 ·0
				23. 0	·01273	21	51 ·0	51 ·0
Jan. 20		Jan. 20		Jan. 20				
2. 30	22. 39 15	0. 30	·1002	0. 0	·01273	1	52 ·0	52 ·0
21. 30	29. 45	7. 32	·1022	8. 30	·01010	3	54 ·0	54 ·5
23. 40	35. 15	8. 53	·1009	10. 30	·01087	9	54 ·3	54 ·3
		12. 6	·1015	23. 0	·00996	21	49 ·0	49 ·0
		12. 38	·1034					
		13. 40	·1019					
		18. 40	·1031					
		22. 45	·1005					
Jan. 21		Jan. 21		Jan. 21				
2. 17	22. 40. 30	0. 0	·1005	1. 0	·01378	1	49 ·5	49 ·5
21. 40	28. 30	11. 15	·1046	10. 0	·01056	3	52 ·0	52 ·0
23. 52	36. 15	15. 55	·1035	23. 0	·01210	9	51 ·5	51 ·5
		21. 55	·1020			21	49 ·0	49 ·0
Jan. 22		Jan. 22		Jan. 22				
1. 43	22. 39. 30	0. 57	·1018	0. 30	·01395	1	50 ·0	50 ·5
12. 21	29. 30	10. 22	·1040	6. 35	·00900	3	53 ·0	53 ·5
13. 23	35. 0	14. 7	·1017	11. 45	·01288	9	50 ·0	50 ·5
14. 38	21. 45	14. 38	·1040	21. 50	·01170	21	46 ·0	46 ·0
15. 0	27. 30	16. 8	·1016	23. 30	·01242			
15. 30	24. 0	18. 15	·1033					
17. 12	32. 0	23. 25	·1016					
17. 39	28. 0							
22. 55	36. 0							
Jan. 23		Jan. 23		Jan. 23				
0. 37	22. 39. 0	1. 8	·1032	0. 0	·01238	1	46 ·7	46 ·7
1. 32	34. 0	5. 23	·1007	3. 32	·00988	3	50 ·0	50 ·0
2. 2	40. 0	8. 18	·1029	6. 0	·01042	9	51 ·5	51 ·5
8. 30	32. 5	10. 30	·1009	11. 7	·00962	21	47 ·0	47 ·0
9. 40	35. 0	19. 13	·1030	22. 55	·01200			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Jan. 23		Jan. 23						
h m	° ′ ″	h m					°	
10. 8	22. 28. 30	20. 22	·1009					
10. 21	34. 0	22. 50	·1040					
10. 40	27. 30	23. 10	·1015					
10. 52	31. 30							
11. 20:	24. 30							
12. 6	30. 0							
15. 30	34. 30							
20. 40	29. 15							
23. 7	34. 30							
Jan. 24		Jan. 24						
2. 20	22. 42. 0	0. 30	·0997			1	50 ·0	
7. 52	33. 0	7. 30	·1024			3	53 ·5	
8. 42	25. 0	9. 48	·1024			9	52 ·5	
9. 22	31. 30		(†)			21	48 ·0	
10. 12	21. 30	21. 40	·1010*					
12. 16	30. 30		(†)					
13. 17	26. 15							
14. 0	35. 0							
20. 57	28. 30							
23. 37	36. 30							
Jan. 25		Jan. 25						
0. 10	22. 35. 45	0. 52	·1000			1	51 ·0	
1. 5	43. 15	2. 52	·1017			3	54 ·0	
1. 37	37. 30	8. 21	·1009			9	54 ·5	
8. 0	34. 0	8. 40	·1041			21	50 ·0	
8. 22	23. 15	9. 3	·0997					
8. 53	34. 15	9. 18	·1016					
9. 10	26. 0	9. 46	·1000					
9. 42	30. 0	11. 40	·0989					
9. 55	25. 15	13. 18	·1017					
10. 47	33. 30	22. 50	·0997					
11. 23:	23. 15							
12. 8	31. 30							
13. 6	26. 45							
23. 32	36. 30							
Jan. 26		Jan. 26						
2. 0	22. 42. 0	0. 20	·1000			1	51 ·0	
6. 39	38. 15	6. 36	·1031			3	54 ·0	
7. 46	31. 0	7. 36	·1011			9	52 ·0	
8. 8	37. 45	8. 2	·1030			21	43 ·0	
8. 20	33. 10	9. 57	·1001					
8. 36	37. 0	11. 6	·1023					
10. 6	25. 0	11. 18	·1013					
10. 52	29. 15	13. 45	·1034					
11. 20	23. 15	14. 7	·1017					
12. 46	29. 45	21. 0	·1033					
23. 38	37. 15	23. 13	·1013					

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40m in Göttingen Time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Jan. 21d to 26d, the Vertical Force magnet and its stand were in the hands of Mr. Barrow, and on the 27th and 28th days it was under adjustment.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Jan. 27		Jan. 27						
h m	° ′ ″	h m		h m			°	°
2. 22	22. 43. 30	0. 12	·1015			1	43·0	43·0
9. 22	28. 0	0. 45	·0997			3	45·0	45·0
23. 45	35. 15	9. 40	·1038			9	45·7	45·5
		23. 33	·1011			22	45·0	45·0
Jan. 28		Jan. 28						
2. 47	22. 40. 45	0. 15	·1011			1	44·5	45·0
7. 0	36. 0	8. 45	·1039			9	44·7	44·5
8. 5	25. 30	9. 33	·1029			21	41·0	41·0
9. 0	34. 0	10. 50	·1040					
11. 6	30. 0	17. 50	·1047					
23. 35	35. 15	23. 30	·1032					
Jan. 29		Jan. 29		Jan. 29				
2. 16	22. 40. 30	1. 20	·1026	0. 0	·00994	1	43·5	43·0
9. 30	32. 40	1. 40;	·1030	3. 33	·00910	3	44·0	44·0
9. 37	27. 0	2. 0;	·1026	5. 15	·00955	9	45·5	45·5
9. 44	32. 0	2. 22	·1034	10. 0	·00912	21	39·0	39·5
10. 55	28. 30	2. 45	·1029	15. 35	·01135			
23. 30	35. 0	19. 50	·1055	23. 0	·01032			
		23. 30	·1028					
Jan. 30		Jan. 30		Jan. 30				
2. 10	22. 48. 0	0. 52	·1026	1. 0	·00895	1	41·0	41·5
10. 22	31. 0	2. 25	·1048	14. 40	·00862	3	43·0	43·0
13. 40	47. 45	3. 10	·1011	23. 30	·01095	9	44·0	44·5
14. 40	32. 45	5. 0	·1047			21	35·0	35·0
15. 34	48. 0	7. 45	·1015					
23. 38	34. 50	10. 50	·1037					
		11. 0	·1026					
		14. 10	·1043					
		23. 0	·1026					
Jan. 31		Jan. 31		Jan. 31				
2. 33	22. 37. 0		(†)		(†)	1	44·0	44·5
22. 36	28. 30	1. 40	·1021*	6. 7	·01173	3	46·0	46·0
23. 9	33. 30		(†)	10. 0	·01030	9	48·0	48·5
23. 40	28. 0	9. 40	·1033	13. 45	·01200	21	40·0	40·0
		22. 40	·1011	23. 17	·01085			
Feb. 1		Feb. 1		Feb. 1				
0. 0	22. 29. 0	1. 2	·1010	0. 27	·01065	1	41·0	41·5
2. 3	37. 30	3. 27	·1040	4. 24	·00876	3	43·5	43·5
4. 0	33. 0	7. 38	·1015	21. 55	·00925	9	45·0	45·0
8. 0	27. 45	12. 40	·1045			21	44·0	44·5
9. 34	34. 0	23. 20	·1029					
12. 42	36. 30							
23. 48	45. 30							
Feb. 2		Feb. 2		Feb. 2				
2. 0	22. 35. 30	0. 12	·1023		(†)	1	47·0	47·5
11. 20	29. 30	2. 45	·1015	7. 5	·01320	3	52·0	

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 2		Feb. 2		Feb. 2				
h m	° ′ ″	h m		h m			°	°
14. 58	22. 33. 45	7. 12	·1035	14. 15	·01290	9	51·0	51·5
16. 52	28. 15	10. 57	·1029	15. 33	·01275	21	48·5	48·5
23. 30	37. 0	16. 30	·1045		(†)			
		23. 0	·1023	22. 4	·01030			
				23. 30	·01065			
Feb. 3		Feb. 3		Feb. 3				
0. 16	22. 38. 45		(†)	0. 0	·01068	1	48·5	49·0
10. 41	28. 30	1. 40	·1024*	2. 8	·00995	3	49·5	49·5
23. 40	35. 0		(†)		(†)	9	50·5	50·5
		9. 46	·1034	6. 0	·00883	22	48·5	48·5
		10. 34	·1029	11. 0	·00850			
		10. 40	·1043	23. 30	·01052			
		11. 7	·1030					
		11. 20	·1042					
		12. 5	·1029					
		17. 57	·1039					
		22. 50	·1020					
Feb. 4		Feb. 4		Feb. 4				
2. 20	22. 39. 0	0. 40	·1019	0. 0	·01215	4	49·5	49·5
5. 8	33. 0	3. 38	·1033	6. 29	·01040	9	49·5	49·5
6. 45	38. 0	5. 46	·1015	8. 10	·01065	21	48·0	48·0
7. 50	28. 15	8. 20	·1040	9. 0	·01200			
8. 26	34. 0	8. 55	·1022	13. 30;	·01008			
8. 39	34. 30	18. 0	·1036	22. 15	·01070			
9. 3	29. 30	23. 15	·1020					
21. 45	31. 30							
Feb. 5		Feb. 5		Feb. 5				
1. 58	22. 48. 0	0. 0	·1020	0. 0	·01275	1	49·0	49·0
8. 47	40. 30	6. 50	·1031	6. 20	·01085	3	51·0	51·0
23. 50	46. 30	8. 40	·1010	23. 30	·01200	9	52·0	52·0
		20. 0	·1036			21	48·0	48·5
		22. 54	·1014					
Feb. 6		Feb. 6		Feb. 6				
2. 17	22. 49. 45	0. 15	·1011	0. 0	·01145	1	50·0	50·5
9. 10	43. 0	8. 15	·1034	3. 35;	·01215	3	50·0	50·5
9. 40	35. 0	11. 53	·1019	11. 30	·01036	9	50·0	50·5
10. 39	41. 40	19. 10	·1036	23. 30	·01235	21	46·0	46·5
11. 30	38. 10	23. 8	·1015					
14. 45	45. 0							
21. 38	39. 30							
Feb. 7		Feb. 7		Feb. 7				
3. 0	22. 50. 30	0. 24	·1011	1. 0	·01225	1	48·0	48·0
21. 0	39. 15	19. 0	·1044	9. 52	·00963	3	48·0	48·5
23. 52	47. 0	23. 5	·1019	19. 0	·01195	9	48·5	48·5
				23. 30	·01164	21	44·0	44·0

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 8		Feb. 8		Feb. 8				
h m	° ′ ″	h m		h m			°	°
2. 22	22. 51. 0	1. 20	·1017	0. 15	·01172	1	47·5	47·5
21. 30	39. 0		***	3. 40	·01030	3	49·0	49·0
23. 45	48. 30	18. 0	·1045	11. 40	·01060	9	52·0	52·5
			***	23. 15:	·00850	21	42·0	42·0
		23. 13	·1015					
Feb. 9		Feb. 9		Feb. 9				
2. 30	22. 51. 30	0. 16	·1013	0. 0	·01115	1	43·5	43·5
9. 30	41. 0		***	5. 30	·00940	3	45·5	45·5
15. 46	44. 45	6. 55	·1039	23. 55	·00890	9	48·0	48·0
21. 47	40. 0		***			21	47·0	47·0
		9. 10	·1028					
			***					
		19. 0	·1043					
			***					
		23. 40	·1013					
Feb. 10		Feb. 10		Feb. 10				
3. 22	22. 53. 30	0. 30	·1016	0. 30	·01130	1	48·0	48·5
12. 40	35. 0	19. 10:	·1040	2. 45	·01035	3	51·0	51·5
	***	23. 8	·1022	7. 24:	·01162	9	51·0	51·5
23. 53	44. 30			23. 30	·01140	22	43·0	43·5
Feb. 11		Feb. 11		Feb. 11				
2. 30	22. 53. 45	0. 50	·1023	0. 0	·01130	1	44·0	44·5
12. 38	38. 30	5. 0	·1038	3. 46:	·01152	9	47·0	47·5
	***	7. 35	·1029	11. 7	·00942	21	39·0	39·5
23. 38	47. 0		***	15. 50	·01150			
		19. 30:	·1056	23. 30	·01038			
			***					
		23. 38	·1028					
Feb. 12		Feb. 12		Feb. 12				
3. 10	22. 54. 0	0. 30	·1030	0. 30	·01020	1	40·0	40·5
6. 0	48. 0	7. 20	·1051	5. 55	·00862	3	43·0	43·5
7. 30	53. 30	8. 23	·1039	9. 33	·00920	9	44·0	44·0
8. 27	47. 0	8. 33	·1059	11. 45	·00855	21	37·5	38·0
8. 46	51. 30	9. 12	·1013	17. 50	·01080			
9. 18	40. 0	10. 0	·1034	23. 45	·00995			
	***	20. 18:	·1055					
23. 45	47. 45	23. 10	·1040					
Feb. 13		Feb. 13		Feb. 13				
3. 22	22. 54. 0	0. 37	·1028	0. 0	·00990	1	40·0	40·5
12. 40	43. 30	3. 22	·1049	4. 50	·00860	3	44·0	44·5
13. 15	36. 45	4. 47	·1015	8. 30	·00978	9	48·0	48·5
14. 8	46. 15	5. 45	·1039	14. 45	·00865	21	40·0	40·0
15. 42	39. 0	8. 8	·1017	23. 30	·01130			
23. 52	50. 0	9 40	·1037					
		12. 50	·1043					
		13. 54	·1021					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
		Feb. 13						
h m	° ′ ″	h m		h m			°	°
		19. 42	·1043					
		23. 12	·1028					
Feb. 14		Feb. 14		Feb. 14				
3. 15	22. 52. 30	0. 22	·1032	0. 0	·01090	1	44·0	44·5
9. 38	37. 30		***	3. 38	·00942	3	51·0	51·0
14. 45	41. 0	3. 40	·1010	6. 45:	·01042	9	50·0	50·0
15. 20	32. 15		***	11. 45	·00975	21	44·0	44·0
15. 45	38. 0	11. 45	·1027	23. 45	·01244			
23. 54	46. 30		***					
		14. 6	·1019					
			***					
		14. 44	·1045					
			***					
		15. 0	·1016					
			***					
		18. 33	·1037					
			***					
		23. 16	·1007					
Feb. 15		Feb. 15		Feb. 15				
1. 40	22. 51. 30	0. 43	·1006	0. 0	·01235	1	50·0	50·5
9. 53	43. 30		***	4. 10	·01040	3	51·0	51·5
10. 30	37. 0	7. 10	·1028	7. 0:	·01106	9	54·0	54·0
23. 35	47. 15		***	23. 30	·00865	21	45·0	45·5
		11. 17	·1010					
			***					
		20. 20:	·1046					
			***					
		23. 46	·1021					
Feb. 16		Feb. 16		Feb. 16				
0. 3	22. 46. 0	0. 8	·1018	0. 0	·01172	1	47·0	47·5
3. 18	50. 0		***	10. 13	·00872	3	50·0	50·5
14. 47	33. 30	10. 13	·1036	17. 25:	·01112	9	48·0	48·5
15. 40	37. 15		***	23. 30	·01045	21	41·0	41·5
16. 15	30. 0	14. 14	·1018					
17. 30	41. 45		***					
23. 45	49. 30	15. 48	·1035					
			***					
		16. 53	·1020					
			***					
		19. 0	·1038					
			***					
		20. 52	·1025					
			***					
		22. 45	·1034					
Feb. 17		Feb. 17		Feb. 17				
3. 30	22. 55. 15	0. 28	·1026	0. 0	·01038	1	42·0	42·5
21. 54	37. 0		***	2. 30:	·01054	3	48·0	48·5
23. 52	44. 45	4. 50	·1019	4. 33	·00913	9	50·0	50·5
			***					

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	Feb.17 h m		Feb.17 h m			°	°
		13. 30	·1040	6. 45:	·00986	23	43·0	43·0
			***	11. 25	·00910			
		18. 45	·1039	18. 50	·01186			
			***	23. 40	·01100			
		22. 45	·1021					
Feb.18		Feb.18		Feb.18				
3. 17	22. 57. 0	1. 0	·1025	0. 0	·01100	1	43·0	43·0
3. 48	50. 0	3. 12	·1043	5. 50	·00922	9	48·0	48·0
4. 20	54. 45	5. 16	·1014	6. 52	·00990	21	46·0	46·5
5. 10	47. 15	6. 22	·1028	8. 52	·00962			
6. 15	52. 30	6. 50	·1011	9. 23	·00982			
6. 45	51. 0	8. 10	·1030	9. 42	·00910			
7. 18	29. 0	8. 52	·0996	10. 2	·00920			
8. 13	47. 30	9. 42	·1046	13. 32	·00840			
8. 25	41. 45	9. 59	·1002	23. 30	·00885			
8. 43	48. 30	10. 15	·1026					
9. 28	32. 30	10. 45	·1004					
9. 45	42. 30	12. 12	·0996					
10. 50	29. 30	12. 32	·1019					
12. 8	37. 30	12. 51	·0990					
12. 34	32. 45	13. 16	·1024					
12. 42	38. 30	13. 20	·0992					
13. 12	28. 30	14. 10	·1016					
13. 54	40. 15	23. 30	·1017					
19. 40	48. 15							
21. 33	42. 30							
23. 40	47. 15							
Feb.19		Feb.19		Feb.19				
1. 8	22. 52. 45	0. 37	·1013	0. 30	·01018	1	49·0	49·5
3. 16	50. 30	4. 45	·1037	2. 15	·01050	3	50·0	50·5
6. 50	57. 0	7. 16	·1002	3. 55	·00990	9	50·5	50·5
8. 17	46. 15	8. 56	·1022	4. 40	·01040	21	46·0	46·0
8. 38	51. 15	9. 20	·0994	10. 0	·01380			
9. 30	25. 30	9. 42	·1015	14. 15	·01250			
10. 12	42. 30	11. 37	·0986	17. 22	·01335			
11. 12	48. 15	13. 45	·1017	23. 45	·01285			
11. 42	34. 45	14. 15	·0994					
12. 27	42. 30	14. 28	·1009					
14. 23	25. 45	14. 54	·0985					
14. 47	34. 30	15. 18	·1003					
15. 10	29. 0	17. 8	·0992					
17. 30	39. 0	18. 0	·1016					
18. 2	33. 0	23. 40	·1003					
23. 30	46. 0							
Feb.20		Feb.20		Feb.20				
3. 8	22. 54. 0	0. 20	·1000	0. 0	·01292	1	49·0	49·5
5. 50	42. 30	5. 25	·1023	4. 36	·01188	3	51·0	51·0
8. 38	52. 30	10. 8	·0999	6. 15	·01255	9	51·8	51·8

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb.20 h m	° ′ ″	Feb.20 h m		Feb.20 h m			°	°
10. 12	22. 30. 0	12. 13	·1012	11. 55	·01190	21	44·5	44·5
11. 53	45. 15	12. 30	·0996	16. 40	·01418			
12. 50	37. 45	13. 40	·1020	23. 30	·01305			
13. 23	41. 0	14. 6	·0996					
13. 40	28. 0	19. 25:	·1026					
14. 2	39. 0	23. 35	·1008					
15. 25	36. 30							
16. 22	44. 0							
16. 40	39. 15							
23. 10	48. 0							
Feb.21		Feb.21		Feb.21				
1. 27	22. 57. 0	0. 17	·0991	0. 0	·01148	1	46·0	46·0
8. 10	44. 30	7. 0	·1028	1. 20	·01195	3	49·0	49·0
8. 57	26. 0	8. 46	·1007	6. 30	·00910	9	49·0	49·0
9. 42	43. 15	14. 37	·1035	15. 0	·00840	21	50·0	50·5
10. 0	38. 30	17. 11	·1014	23. 30	·00920			
11. 18	45. 30	18. 18	·1034					
12. 8	39. 0	22. 55	·0994					
12. 37	44. 30							
14. 45	31. 30							
16. 10	43. 30							
16. 24	38. 30							
23. 30	49. 0							
Feb.22		Feb.22		Feb.22				
0. 0	22. 49. 30	0. 0	·1000	0. 0	·00940	1	54·0	54·5
2. 53	56. 30	0. 30	·0997	7. 10	·01152	3	59·0	59·5
6. 22	43. 45	2. 48	·1019	7. 38	·01228	9	53·0	53·5
6. 50	51. 15	3. 45	·1000	7. 55	·01090	21	43·0	43·5
7. 3	39. 30	5. 48	·1028	8. 40	·01072			
7. 30	53. 15	6. 52	·0999	9. 0	·01110			
7. 43	29. 30	7. 0	·1028	9. 28	·01058			
8. 7	53. 0	7. 37	·0995	11. 12	·01045			
8. 48	45. 0	7. 42	·1045	11. 30	·00955			
8. 53	51. 15	8. 0	·1002	23. 30	·00810			
9. 7	23. 0	8. 40	·1023					
9. 40	38. 45	8. 52	·0981					
9. 45	30. 0	9. 3	·1027					
11. 30	45. 15	9. 37	·0981					
13. 9	30. 30	11. 20	·1002					
13. 28	38. 15	11. 37	·0990					
13. 42	26. 0	12. 12	·0997					
15. 42	42. 0	12. 36	·0983					
23. 45	44. 0	13. 14	·1030					
		13. 32	·1000					
		13. 50	·1016					
		23. 30	·0990					
Feb.23		Feb.23		Feb.23				
2. 13	22. 50. 0	1. 0	·0991	0. 30	·01200	1	50·0	50·5
10. 37	32. 45 ***	6. 22	·1030	4. 33	·00905	3	54·0	54·5

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 23		Feb. 23		Feb. 23				
h m	° ′ ″	h m		h m			°	°
23. 42	22. 47. 0	7. 41	·1006	7. 0:	·00930	9	52 ·0	52 ·0
		8. 23	·1022	10. 0	·00882	21	45 ·0	45 ·5
		10. 54	·0996	16. 25	·01200			
		19. 0:	·1033	23. 45	·01185			
		22. 55	·1003					
Feb. 24		Feb. 24		Feb. 24				
1. 22	22. 52. 30	0. 20	·0998	0. 0	·01190	1	48 ·0	48 ·5
8. 13	36. 45	7. 18	·1037	6. 40	·00843	3	50 ·0	50 ·5
23. 30	45. 15	9. 0	·1015	11. 0	·00828	9	49 ·5	49 ·5
		17. 20	·1043	19. 45	·01166	22	44 ·0	44 ·0
		23. 37	·1009	23. 30	·01140			
Feb. 25		Feb. 25		Feb. 25				
1. 27	22. 55. 30	0. 0	·1008	0. 0	·01140	0	45 ·5	45 ·5
21. 55	38. 0	19. 30:	·1043	8. 0	·00775	6	49 ·5	49 ·5
23. 38	46. 0	23. 28	·1006	8. 45:	·01135	9	47 ·0	47 ·0
				22. 50:	·01080	21	44 ·0	44 ·0
Feb. 26		Feb. 26		Feb. 26				
1. 50	22. 52. 30	0. 27	·1007	0. 0	·01085	1	45 ·8	45 ·8
10. 0	43. 30	6. 30	·1044	2. 10	·01113	3	50 ·0	50 ·0
10. 49	22. 45	10. 25	·1030	3. 45	·01030	9	49 ·0	49 ·0
12. 8	37. 0	11. 0	·1051		(†)	21	39 ·0	39 ·0
17. 25	43. 0	11. 18	·1029	9. 38	·00740			
21. 30	37. 45	13. 7	·1020	16. 25	·01115			
23. 40	48. 0	20. 7	·1046	23. 15	·01010			
		22. 32	·1020					
Feb. 27		Feb. 27		Feb. 27				
0. 0	22. 48. 45	0. 22	·1005	0. 0	·01015	1	43 ·0	43 ·5
0. 45	58. 15	0. 43	·1036	4. 32	·00782	3	49 ·0	49 ·5
1. 18	52. 0	1. 37	·1011	7. 20	·00890	9	49 ·8	49 ·8
5. 19	55. 30	3. 30	·1039	7. 37	·01020	21	43 ·0	43 ·0
6. 53	22. 40. 45	5. 25	·1017	8. 35	·00854			
7. 18	23. 0. 15	6. 52	·1022	10. 45	·00805			
8. 1	22. 23. 45	7. 0	·1056	11. 7	·00704			
8. 12	29. 0	7. 33	·0991	23. 30	·01148			
8. 18	25. 30	7. 38	·1013					
8. 31	38. 0	7. 43	·0977					
8. 38	30. 0	8. 25	·1009					
9. 8	39. 30	8. 37	·0985					
10. 43	38. 0	8. 42	·1005					
11. 18	28. 15	9. 52	·0987					
12. 0	31. 0	11. 2	·1023					
12. 38	28. 0	11. 25	·0991					
12. 40	27. 30	11. 40	·1001					
13. 37	46. 0	12. 18	·0984					
14. 48	49. 30	17. 55	·1016					
16. 10	40. 30	18. 37	·1045					
17. 55	59. 0	20. 52	·1007					
21. 35	44. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 27		Feb. 27						
h m	° ′ ″	h m		h m			°	°
23. 45	22. 52. 15	21. 53	·1023					
		22. 58	·1004					
Feb. 28		Feb. 28		Feb. 28				
1. 36	22. 54. 15	0. 50	·0991	0. 0	·01120	1	46 ·0	46 ·5
9. 17	44. 0	4. 2	·1026	9. 28	·00680	3	48 ·3	48 ·3
	***	4. 38	·1003	15. 0	·01070	9	48 ·0	48 ·0
21. 9	41. 15	19. 28:	·1042	23. 30	·01018	21	41 ·0	41 ·0
23. 42	50. 0	23. 33	·1010					
Mar. 1		Mar. 1		Mar. 1				
0. 45	22. 55. 0	0. 38	·1009	0. 15	·01002	1	42 ·8	43 ·0
21. 38	38. 45	2. 37	·1026	9. 29	·00650	3	46 ·0	46 ·0
23. 48	48. 30	2. 53	·1011	23. 5	·00840	9	48 ·0	48 ·5
		3. 37	·1027			21	44 ·5	44 ·5
		4. 30	·1013					
		18. 54	·1039					
		23. 36	·1000					
Mar. 2		Mar. 2		Mar. 2				
1. 37	22. 52. 15	0. 20	·0993	0. 0	·00825	1	48 ·0	48 ·0
9. 27	37. 40	11. 52	·1034	2. 15	·00684	3	51 ·5	51 ·5
11. 48	41. 30	12. 24	·1020	4. 48	·00900	9	54 ·0	54 ·0
11. 56	45. 0	12. 52	·1056	13. 20:	·00750	21	46 ·0	46 ·0
12. 30	43. 0	14. 13	·1023	23. 15	·00740			
12. 47	39. 0	19. 22	·1035					
17. 0	44. 30	22. 53	·1002					
21. 10	39. 0							
23. 38	47. 30							
Mar. 3		Mar. 3		Mar. 3				
0. 0	22. 47. 45	1. 7	·0998	0. 0	·01182	1	49 ·0	49 ·0
3. 0	54. 0	14. 30	·1040	4. 38	·00890	3	53 ·0	53 ·0
7. 50	39. 45	17. 22	·1020	18. 0	·01002	9	53 ·0	53 ·0
14. 8	41. 45	18. 55	·1037	23. 30	·01030	22	51 ·0	51 ·0
14. 30:	47. 45	23. 15	·0998					
15. 13	41. 30							
20. 55	38. 15							
23. 54	50. 0							
Mar. 4		Mar. 4		Mar. 4				
2. 33	22. 58. 0	1. 0	·0999	0. 5	·01268	0	53 ·0	53 ·5
9. 2	33. 30	2. 34	·1006	4. 20	·00968	5	58 ·0	58 ·5
	***	2. 56	·0988	5. 30	·01008	9	55 ·0	55 ·0
12. 54	42. 15	5. 42	·1019	7. 0	·00962	21	46 ·0	46 ·5
	***	7. 37	·1001	9. 38	·01130			
13. 20	39. 0	13. 50	·1040	23. 15	·00900			
	***	16. 13	·1024					
13. 58	46. 15	18. 44	·1041					
	***	23. 44	·1007					

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Mar. 4								
h m	° ′ ″	h m		h m			°	°
18. 38	22. 38. 30							
	***							
23. 42	49. 45							
Mar. 5		Mar. 5		Mar. 5				
2. 16	22. 54. 0	1. 30	·1005	0. 0	·01185	1	50 ·0	50 ·0
15. 30	***	19. 13:	·1037	5. 12	·00855	3	54 ·0	54 ·0
21. 0	40. 15	23. 0	·1011	19. 30	·01240	9	55 ·0	55 ·5
	***			23. 40	·01195	21	48 ·0	48 ·0
23. 25	46. 0							
Mar. 6		Mar. 6		Mar. 6				
1. 52	22. 50. 30	0. 27	·1005	0. 0	·01185	1	49 ·0	49 ·5
10. 1	43. 0	2. 12	·1001	4. 30	·00875	3	55 ·0	55 ·0
10. 57	33. 30	11. 32	·1043	6. 15:	·00895	9	56 ·0	56 ·0
11. 30	46. 30	11. 57	·1025	9. 0	·00860	21	49 ·0	49 ·0
12. 7	38. 0	17. 10:	·1041	11. 30	·01032			
13. 3	46. 30	23. 37	·1009	17. 30:	·00900			
14. 12	38. 0			23. 30	·00885			
15. 40	43. 30							
17. 15	36. 0							
23. 40	46. 0							
Mar. 7		Mar. 7		Mar. 7				
0. 40	22. 50. 45	0. 28	·1011	0. 0	·01160	1	52 ·0	52 ·0
21. 38	37. 30	19. 12:	·1037	4. 55	·00795	3	55 ·0	55 ·0
23. 45	47. 45	22. 51	·1014	8. 40	·00780	9	55 ·0	55 ·0
				20. 30	·01240	21	47 ·0	47 ·5
				23. 30	·01170			
Mar. 8		Mar. 8		Mar. 8				
1. 47	22. 53. 0	0. 13	·1014	0. 20	·01160	1	50 ·5	50 ·0
9. 44	43. 45	2. 0	·1030	8. 15:	·00872	3	50 ·0	50 ·5
9. 54	33. 0	2. 32	·1011	13. 8	·01162	9	51 ·0	51 ·0
19. 20:	32. 0	4. 20	·1028	23. 40	·00965	21	39 ·0	39 ·0
11. 12	37. 15	5. 0	·1012					
23. 25	48. 30	19. 55	·1047					
		23. 15	·1023					
Mar. 9		Mar. 9		Mar. 9				
0. 43	22. 57. 0	0. 0	·1026	3. 14	·00272	1	44 ·0	44 ·5
8. 53	37. 45	2. 0	·1048	4. 12	·00205	3	46 ·0	46 ·0
23. 50	50. 0	2. 51	·1037	5. 10	·00240	9	44 ·0	44 ·0
		3. 30	·1049	9. 15	·00145	21	38 ·0	38 ·0
		5. 35	·1030	19. 8	·00370			
		19. 40:	·1044	22. 50	·00285			
		23. 0	·1013					
Mar. 10		Mar. 10		Mar. 10				
2. 16	22. 54. 15	0. 20	·1020	1. 3	·00134	1	43 ·0	43 ·0

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Mar. 10		Mar. 10		Mar. 10				
h m	° ′ ″	h m		h m			°	°
9. 17	22. 37. 45	18. 30:	·1045	3. 10	·00235	3	46 ·0	46 ·0
23. 55	48. 0	23. 20	·1002	3. 40	·00214	9	48 ·0	48 ·0
				4. 42	·00262	22	41 ·0	41 ·5
				8. 56	·00220			
				23. 25	·00296			
Mar. 11		Mar. 11		Mar. 11				
2. 12	22. 54. 15	0. 56	·1009	0. 0	·00410	0	41 ·0	41 ·0
8. 45	37. 30	18. 8:	·1048	5. 40	·00220	3	45 ·0	45 ·0
23. 48	49. 0	23. 18	·1009	11. 0:	·00182	9	44 ·0	44 ·0
				22. 20	·00278	21	45 ·0	45 ·0
Mar. 12		Mar. 12		Mar. 12				
1. 54	22. 53. 45	0. 25	·1013	0. 30	·00350	1	49 ·0	49 ·5
9. 18	37. 30	6. 45	·1045	5. 10	·00492	3	51 ·0	51 ·0
23. 41	45. 30	10. 35	·1029	23. 5	·00590	9	53 ·0	53 ·0
		17. 38:	·1037			21	50 ·0	50 ·0
		23. 30	·1011					
Mar. 13		Mar. 13		Mar. 13				
0. 55	22. 53. 30	1. 35	·1007	0. 0	·00588	1	54 ·0	54 ·0
21. 10	38. 30	19. 17	·1047	3. 40	·00505	3	55 ·0	55 ·5
23. 45	45. 30	23. 37	·1021	12. 32	·00662	9	53 ·0	53 ·0
				23. 30	·00502	21	45 ·0	45 ·0
Mar. 14		Mar. 14		Mar. 14				
2. 54	22. 50. 45	0. 50	·1019	0. 0	·00510	1	48 ·0	48 ·5
10. 32	43. 30	8. 13	·1044	3. 30	·00550	3	50 ·0	50 ·0
11. 0	33. 45	11. 20	·1027	6. 45	·00370	9	51 ·0	51 ·0
12. 0	41. 0	18. 25	·1043	23. 30	·00450	21	50 ·0	50 ·0
17. 24	43. 15	23. 45	·1012					
20. 33	36. 45							
23. 55	44. 45							
Mar. 15		Mar. 15		Mar. 15				
2. 55	22. 52. 15	0. 5	·1011	0. 0	·00450	1	50 ·0	50 ·0
12. 14	35. 15	2. 45	·1043	4. 50	·00432	3	52 ·0	52 ·0
17. 54	42. 30	6. 36	·1019	7. 30	·00490	9	53 ·0	53 ·0
21. 0	38. 30	11. 45	·1046	12. 35	·00420	21	51 ·0	51 ·0
23. 50	45. 30	23. 18	·1009	22. 10	·00670			
				23. 30	·00647			
Mar. 16		Mar. 16		Mar. 16				
0. 0	22. 45. 45	0. 55	·1014	0. 0	·00647	1	53 ·0	53 ·0
2. 17	50. 30	10. 40:	·1036	3. 52	·00488	3	56 ·0	56 ·0
9. 23	42. 15	15. 28:	·1031	16. 15	·00700	9	56 ·0	56 ·0
		19. 20:	·1040	23. 30	·00560	21	49 ·0	49 ·0
		23. 18	·1016					
Mar. 17		Mar. 17		Mar. 17				
1. 36	22. 51. 45	0. 22	·1019	0. 0	·00550	1	50 ·0	50 ·0
9. 56	41. 45	2. 25	·1013	1. 50	·00595	3	58 ·0	58 ·0

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Mar. 17		Mar. 17		Mar. 17				
h m	° ′ ″	h m		h m			°	°
10. 35	22. 33. 30	10. 28	·1038	3. 16	·00490	9	56 ·0	56 ·0
11. 40	37. 45	11. 28	·1017	5. 10	·00560			
12. 45	28. 30	12. 28	·1035	10. 9	·00475			
13. 57	37. 15	12. 55	·1014	11. 45	·00522			
15. 0	25. 0	14. 37	·1037	12. 35	·00535			
17. 0:	34. 30	16. 42	·1023	13. 25	·00605			
	***	17. 54	·1055	13. 45	·00575			
23. 40	49. 15	18. 50	·1040	23. 30	·00497			
		19. 30	·1053					
		23. 5	·1014					
Mar. 18		Mar. 18		Mar. 18				
1. 23	22. 52. 30	0. 30	·1013	0. 0	·00490	0	48 ·0	48 ·0
9. 56	30. 30	1. 1	·1026	3. 45	·00580	3	48 ·0	48 ·0
10. 16	35. 15	1. 35	·1007	10. 35	·00350	9	48 ·0	48 ·5
10. 24	29. 15	2. 12	·1027	14. 45	·00396	21	46 ·0	46 ·0
10. 40	36. 15	2. 28	·1016	14. 55	·00372			
11. 0	31. 45	4. 38	·1043	15. 11	·00420			
12. 10	36. 45	9. 22	·1039	20. 0	·00555			
14. 20	27. 0	9. 37	·1057	23. 30	·00537			
15. 8	38. 30	9. 44	·1032					
15. 52	34. 45	10. 2	·1049					
16. 30	43. 30	11. 48	·1006					
16. 52	37. 30	12. 43	·1023					
18. 50	43. 45	13. 45	·1006					
20. 8	37. 45	17. 53	·1038					
23. 33	47. 45	23. 2	·1009					
Mar. 19		Mar. 19		Mar. 19				
2. 30	22. 52. 30	0. 10	·1023	0. 30	·00555	1	46 ·0	46 ·0
11. 5	36. 30	2. 3	·1041	3. 11	·00590	3	50 ·0	50 ·0
13. 45	42. 30	5. 35	·1021	6. 20	·00392	9	50 ·0	56 ·0
17. 45	38. 0	6. 37	·1035	11. 8	·00338	21	45 ·0	45 ·0
23. 50	46. 30	9. 7	·1015	17. 40	·00575			
		9. 41	·1025	23. 55	·00535			
		10. 10	·1016					
		18. 0:	·1034					
		23. 8:	·1012					
Mar. 20		Mar. 20		Mar. 20				
2. 29	22. 50. 0	0. 22	·1019	0. 0	·00545	1	49 ·0	49 ·0
9. 37	40. 30	4. 30	·1014	4. 55	·00395	3	53 ·0	53 ·0
9. 53	31. 0	5. 30	·1038	10. 15	·00355	9	52 ·0	52 ·0
10. 10	42. 30	6. 20	·1023	15. 30	·00594	21	44 ·0	44 ·0
10. 27	36. 45	7. 8	·1037	23. 30	·00490			
11. 8	43. 0	9. 37	·1021					
11. 36	37. 15	10. 0	·1049					
13. 4	43. 0	10. 24	·1008					
14. 20	39. 15	11. 36	·1032					
15. 8	49. 0	11. 53	·1023					
16. 10	40. 30	17. 50:	·1036					

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Mar. 20		Mar. 20						
h m	° ′ ″	h m		h m			°	°
21. 38	22. 39. 30	23. 55	·1009					
23. 55	50. 0							
Mar. 21		Mar. 21		Mar. 21				
2. 0	22. 54. 0	1. 0	·1013	0. 15	·00506	1	46 ·0	46 ·0
9. 26	41. 30	10. 40:	·1043	5. 10	·00330	3	53 ·5	53 ·5
	***	23. 6	·1010	8. 0	·00350	9	53 ·0	53 ·0
10. 0	36. 0			11. 15	·00285	21	44 ·0	44 ·0
	***			16. 5	·00590			
11. 0	41. 45			23. 55	·00500			
	***							
12. 53	36. 0							
	***							
15. 35	40. 0							
23. 53	50. 0							
Mar. 22		Mar. 22		Mar. 22				
1. 40	22. 56. 30	1. 7	·1005	0. 0	·00495	1	45 ·0	45 ·0
20. 37	36. 0	1. 20	·1023	4. 30	·00530	3	46 ·5	47 ·0
23. 54	47. 0	2. 20	·1013	10. 36:	·00323	9	47 ·5	47 ·0
		8. 10	·1043	17. 45	·00520	21	44 ·5	44 ·5
		23. 30	·1012	23. 30	·00475			
Mar. 23		Mar. 23		Mar. 23				
1. 56	22. 53. 0	0. 42	·1018	0. 0	·00475	1	45 ·0	45 ·0
10. 0	42. 0	7. 40	·1042	6. 40	·00232	3	47 ·0	47 ·0
	***	10. 0	·1037	19. 52	·00517	9	48 ·0	48 ·0
21. 15	35. 0	18. 18:	·1044	23. 30	·00433	21	43 ·0	43 ·0
23. 55	48. 0	22. 52	·1017					
Mar. 24		Mar. 24		Mar. 24				
2. 49	22. 52. 15	0. 10	·1027	0. 0	·00420	1	46 ·0	46 ·0
9. 56	40. 30	4. 25	·1047	2. 49	·00462	3	49 ·0	49 ·5
	***	6. 30	·1025		(†)	9	48 ·0	48 ·0
20. 0	33. 0	7. 52	·1040	10. 0	·00175	22	38 ·0	38 ·0
20. 52	36. 0	9. 32	·1023	15. 15	·00470			
21. 30	33. 30	12. 7	·1044	23. 8	·00380			
23. 54	46. 45	18. 8:	·1054					
		21. 35	·1016					
		23. 52	·1034					
Mar. 25		Mar. 25		Mar. 25				
2. 44	22. 52. 30	0. 25	·1036	1. 0	·00342	1	39 ·0	39 ·0
7. 13	44. 30	6. 36	·1079	14. 18	·00016	9	42 ·0	42 ·0
7. 38	48. 45	7. 50	·1031	23. 30	·00278	21	39 ·0	39 ·0
8. 2	44. 30	13. 12	·1063					
9. 36	37. 15	13. 50	·1051					
13. 5	48. 0	14. 5	·1066					
14. 37	40. 0	23. 0	·1020					
23. 45	49. 0							

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Mar. 26		Mar. 26		Mar. 26				
h m	° ′ ″	h m		h m			°	°
0. 15	22. 50. 0	0. 30	·1024	0. 30	·00090	1	41 ·0	41 ·0
3. 19	52. 0	3. 22	·1044	2. 7	·00070	3	45 ·0	45 ·0
4. 20	46. 0	3. 54	·1023	7. 30	·00220	9	46 ·0	46 ·0
9. 30	39. 0	6. 7	·1055	14. 30	·00160	21	41 ·0	41 ·5
12. 20:	40. 30	15. 27	·1045	23. 30	·00488			
13. 22:	45. 0	17. 40	·1046					
15. 15	35. 0	19. 48	·1044					
23. 40	46. 0	21. 45	·1027					
		23. 45	·1009					
Mar. 27		Mar. 27		Mar. 27				
1. 57	22. 52. 15	0. 4	·1006	0. 0	·00400	1	45 ·0	45 ·0
11. 43	40. 0	6. 11	·1033	4. 42	·00218	3	50 ·0	50 ·0
12. 8	43. 30	6. 15	·1071	8. 0	·00270	9	50 ·0	50 ·0
12. 40	35. 0	6. 45	·1045	19. 40	·00490	21	43 ·5	43 ·5
14. 10	42. 0	11. 58	·1032	23. 30	·00465			
20. 50	35. 0	16. 30	·1041					
23. 40	46. 45		(†)					
		21. 54	·1025					
		23. 40	·1012					
Mar. 28		Mar. 28		Mar. 28				
1. 42	22. 55. 15	0. 40	·1008	0. 30	·00490	1	45 ·0	45 ·0
7. 18	35. 0	5. 53	·1041	2. 45	·00510	3	47 ·0	47 ·0
7. 53	38. 0	8. 20	·1022	10. 20	·00150	9	47 ·0	47 ·0
8. 18	34. 15	9. 38	·1050	11. 20	·00180	21	43 ·0	43 ·0
8. 58	38. 30	11. 0	·1008	12. 35	·00135			
9. 25	33. 0	11. 37	·1050	22. 10	·00542			
9. 40	37. 0	16. 3	·1027	23. 25	·00515			
	(†)	19. 30	·1038					
16. 0	47. 30	23. 7	·1013					
21. 8	33. 45	23. 55	·1020					
23. 55	44. 0							
Mar. 29		Mar. 29		Mar. 29				
2. 15	22. 48. 15	0. 45	·1014	0. 30	·00515	1	47 ·0	47 ·0
10. 0	43. 0	5. 20:	·1039	6. 0	·00264	3	53 ·0	53 ·0
	***	11. 48	·1030	11. 7	·00227	9	50 ·0	50 ·0
17. 50	41. 0	18. 40:	·1042	18. 30	·00582	21	43 ·0	43 ·0
20. 8	36. 15	23. 38	·1010	23. 30	·00538			
23. 54	50. 30							
Mar. 30		Mar. 30		Mar. 30				
2. 0	22. 54. 45	0. 8	·1014	0. 30	·00535	1	47 ·0	47 ·5
15. 8	38. 45	1. 20	·1035	5. 0	·00330	3	50 ·0	50 ·0
15. 38	52. 45	2. 18	·1018	12. 30	·00285	9	53 ·0	53 ·0
16. 30	27. 0	3. 24	·1038	15. 25	·00308	21	48 ·0	48 ·0
16. 58	37. 0	3. 48	·1024	16. 6	·00218			
23. 50	49. 15	4. 25	·1053	23. 30	·00655			
		5. 51	·1004					
		12. 2	·1037					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
		Mar. 30						
h m	° ′ ″	h m		h m			°	°
		16. 6	·1028					
		22. 40:	·1001					
Mar. 31		Mar. 31		Mar. 31				
1. 3	22. 51. 30	0. 10	·1003	0. 30	·00632	1	51 ·0	51 ·0
9. 26	44. 0	18. 50	·1039	3. 4	·00378	3	57 ·0	57 ·0
	***	23. 40	·1008	5. 20	·00428	9	55 ·0	55 ·0
21. 7	37. 0			5. 26	·00550	22	48 ·0	48 ·0
23. 37	46. 45			7. 18	·00426			
				7. 22	·00530			
				10. 30	·00390			
				17. 5	·00711			
				23. 45	·00614			
Apr. 1		Apr. 1		Apr. 1				
2. 0	22 55. 30	0. 25	·1012	0. 0	·00617	1	49 ·0	49 ·0
12. 10	43. 0	1. 48	·1020	2. 33	·00692	11	52 ·0	52 ·0
	***	3. 54	·0999	10. 22:	·00325	21	47 ·0	47 ·0
20. 58	32. 0	18. 58	·1039	19. 5	·00654			
	***	23. 7	·0988	22. 25	·00600			
23. 40	49. 15			23. 30	·00628			
Apr. 2		Apr. 2		Apr. 2				
2. 42	22. 53. 0	0. 33	·1001	0. 8	·00625	1	53 ·0	53 ·5
8. 30	43. 15	7. 55	·1047	5. 0	·00368	3	55 ·0	55 ·0
	***	9. 26	·1028	5. 55	·00390	9	53 ·0	53 ·0
9. 36	30. 15	9. 45	·1051	9. 26	·00328	21	43 ·0	43 ·0
	***	11. 8	·1027	16. 8	·00585			
11. 0	43. 15	14. 12	·1048	23. 30	·00502			
	***	15. 30	·1023					
13. 22	42. 0	16. 45	·1057					
	***	23. 24	·0999					
14. 52:	33. 0							
	***							
16. 7	43. 15							
	***							
19. 24	38. 15							
	***							
23. 40	52. 30							
Apr. 3		Apr. 3		Apr. 3				
1. 25	22. 55. 45	0. 24	·1013	0. 0	·00540	1	50 ·0	50 ·0
6. 13	37. 45	4. 0	·1036	0. 45	·00560	3	55 ·0	55 ·0
23. 56	51. 15	4. 40	·1018	4. 10	·00350	9	53 ·0	53 ·0
		6. 10	·1052	6. 15	·00380	21	46 ·0	46 ·0
		7. 45	·1029	9. 20	·00305			
		10. 55	·1043	16. 55	·00620			
		22. 53	·1012	23. 30	·00572			

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^{m} in Göttingen Time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Apr. 4		Apr. 4		Apr. 4				
h m	° ′ ″	h m		h m			°	°
1. 42	22. 52. 45	0. 0	(†)	0. 45	·00555	1	52 ·0	52 ·5
8. 40	44. 45	10. 37	·1032	3. 0	·00313	3	58 ·0	58 ·0
	***	11. 0	·1075		(†)	9	56 ·0	56 ·0
9. 40	32. 30	11. 24	·1037			21	49 ·0	49 ·0
	***	13. 33	·1063					
9. 50	45. 0	14. 50	·1043					
	***	22. 3	·1015					
10. 37	24. 15	23. 50	·1026					
	***							
11. 7	38. 0							
	***							
13. 0	38. 0							
	***							
13. 33	43. 45							
	***							
13. 55	34. 30							
	***							
23. 47	52. 30							
Apr. 5		Apr. 5		Apr. 5				
0. 55	22. 52. 45	1. 20	·1010	0. 30	·00712	1	51 ·0	51 ·0
20. 42	34. 0	10. 50	·1027	4. 15	·00468	3	56 ·0	56 ·0
23. 47	48. 0	11. 7	·1045	5. 8	·00497	9	56 ·0	56 ·0
		11. 56	·1026	8. 30	·00450	23	48 ·0	48 ·0
		18. 45:	·1042	11. 45	·00590			
		23. 30	·0997	23. 45	·00408			
Apr. 6		Apr. 6		Apr. 6				
1. 50	22. 54. 0	0. 0	·0996	0. 0	·00604	0	52 ·0	52 ·0
10. 45	40. 30	5. 55	·1025	3. 2	·00360	9	59 ·0	59 ·0
	***	6. 22	·1042	7. 0	·00480	21	51 ·0	51 ·0
21. 38	33. 30	7. 12	·1027	10. 15	·00430			
23. 55	51. 0	9. 55	·1036	14. 6	·00790			
		10. 40	·1024	23. 30	·00652			
		18. 45:	·1035					
		23. 7	·0987					
Apr. 7		Apr. 7		Apr. 7				
2. 16	22. 58 ·15	0. 10	·0985	1. 0	·00645	1	52 ·0	52 ·5
21. 0	33 ·45	8. 12	·1039	5. 45	·00415	3	55 ·0	55 ·0
23. 45	48 ·15	9. 24	·1026	10. 0:	·00380	9	57 ·0	57 ·0
		15. 30	·1036	15. 28	·00710	22	49 ·0	49 ·0
			(†)	23. 30:	·00625			
		23. 10	·1000					
		23. 48	·1004					
Apr. 8		Apr. 8		Apr. 8				
2. 6	22. 52. 45	0. 15	·1004	0. 5	·00618	0	50 ·0	50 ·0
12. 37	40. 30	8. 20	·1045	7. 15	·00310	9	53 ·5	53 ·5
	***	11. 18:	·1036	10. 45	·00292	21	48 ·0	48 ·0
20. 30	34. 15							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Apr. 8		Apr. 8		Apr. 8				
h m	° ′ ″	h m		h m			°	°
23. 55	22. 49. 0	18. 3	·1053	16. 40	·00660			
		23. 20	·1014	23. 30	·00550			
Apr. 9		Apr. 9		Apr. 9				
0. 50	22. 54. 0	0. 45	·1029	0. 30	·00558	1	49 ·0	49 ·0
10. 32	38. 30		(†)	10. 50	·00245	3	52 ·5	52 ·5
12. 32	45. 0	9. 50	·1040	19. 15	·00652	9	53 ·0	53 ·0
20. 15	35. 0	11. 40	·1039	23. 52	·00580	21	48 ·5	48 ·5
23. 43	47. 45	12. 0	·1059					
		23. 15	·1013					
Apr. 10		Apr. 10		Apr. 10				
1. 40	22. 53. 30	0. 0	·1015	0. 0	·00595	1	49 ·0	49 ·0
7. 10	44. 15	1. 30	·1032	4. 38	·00440	3	52 ·2	52 ·2
7. 40	37. 30	2. 10	·1014	7. 37	·00495	9	52 ·0	52 ·0
9. 9	41. 0	5. 45	·1052	9. 38	·00440	21	46 ·5	46 ·5
20. 40	34. 30	7. 33	·1033	16. 55	·00830			
23. 50	46. 45	16. 52:	·1052	22. 12	·00770			
		23. 0	·1013					
Apr. 11		Apr. 11		Apr. 11				
2. 36	22. 53. 45	0. 3	·1014	0. 0	·00360	1	48 ·0	48 ·0
9. 56	43. 0	18. 48:	·1064	9. 15	·00110	3	49 ·5	49 ·5
	***	23. 40	·1020	17. 5	·00550	9	49 ·0	49 ·0
19. 0	39. 30			21. 0	·00560	21	42 ·5	42 ·5
20. 55	34. 0			23. 30	·00450			
23. 38	45. 15							
Apr. 12		Apr. 12		Apr. 12				
1. 50	22. 53. 0	0. 0	·1019	0. 0:	·00270	1	45 ·0	45 ·0
9. 44	43. 0	2. 55	·1045	4. 10:	·00060	3	48 ·0	48 ·0
	***	3. 45	·1037	6. 30:	·00107	9	49 ·0	49 ·0
20. 48	35. 30	10. 12	·1055	10. 30:	·00095	21	45 ·0	45 ·0
23. 30	44. 45	23. 0	·1016	22. 30:	·00495			
Apr. 13		Apr. 13		Apr. 13				
1. 55	22. 54. 0	0. 15	·1016	2. 30	·01225	1	48 ·0	48 ·0
9. 28	42. 30	8. 0	·1072	4. 30	·01223	3	49 ·0	49 ·0
	**	8. 18	·1055	15. 52	·01415	9	49 ·0	49 ·0
12. 30	42. 15	12. 42	·1073	18. 0	·01360	21	44 ·5	44 ·5
	**	17. 0	·1045	23. 30	·01407			
15. 33	27. 30	17. 30	·1068					
	***	18. 10	·1048					
17. 15	40. 30	23. 55	·1000					
	***							
19. 12	39. 15							
19. 50	29. 15							
20. 23	40. 0							
23. 50	51. 0							

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^{m} in Göttingen Time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Apr.14		Apr.14		Apr.14				
h m	° ′ ″	h m		h m			°	°
2. 3	22. 59. 15	0. 8	·1007	1. 30	·01160	1	49·0	
6. 8	47. 30	1. 12	·1027	15. 48	·01550	3	52·0	
6. 43	33. 30	1. 45	·1013	23. 15	·01440	9	53·0	
7. 35	41. 30	2. 0	·1031			23	44·0	
9. 30	41. 30	2. 40	·1004					
	***	3. 7	·1030					
20. 57	35. 30	3. 12	·1017					
23. 53	45. 30	4. 33	·1045					
		6. 22	·1025					
		6. 52	·1055					
		8. 33	·1037					
		18. 10:	·1055					
		23. 38	·1017					
Apr.15		Apr.15		Apr.15				
0. 0	(†)	0. 0	(†)	0. 0	(†)	9	45·0	
9. 40	22. 39. 16*	9. 40	·1066*	10. 0	·01430	21	43·0	
	(†)		(†)	10. 55	·01440			
21. 0	37. 0	21. 40	·1036	14. 30	·01405			
23. 45	48. 30	23. 32	·1017	18. 30	·01475			
				23. 50	·01400			
Apr.16		Apr.16		Apr.16				
2. 47	22. 52. 30	0. 0	·1019	0. 0	·01170	1	47·0	47·0
11. 45	34. 0	6. 15	·1056	1. 20	·01120	3	54·0	54·0
	***	10. 10	·1037	5. 10:	·01360	9	53·0	53·0
21. 35	38. 30	11. 10	·1057	10. 10	·01300	21	46·0	
23. 50	46. 0	11. 36	·1041	18. 30	·01570			
		15. 22	·1036	23. 30	·01520			
		16. 50	·1051					
			(†)					
		22. 1	·1023					
		23. 40	·1021					
Apr.17		Apr.17		Apr.17				
1. 12	22. 49. 0	0. 30	·1024	0. 15	·01518	1	48·0	48·0
7. 10	38. 30	1. 12	·1042	4. 50	·01280	3	51·0	51·0
	***	1. 40	·1028	8. 30	·01270	9	48·0	
8. 50	36. 0	7. 20	·1058	12. 55	·01500	21	40·5	
	***	9. 50	·1045	23. 55	·01340			
18. 0	39. 0	14. 32	·1071					
21. 17	34. 30	15. 33	·1055					
23. 55	47. 0	23. 10:	·1031					
Apr 18		Apr.18		Apr.18				
1. 17	22. 50. 15	0. 30	·1034	0. 15	·01340	1	45·0	45·0
7. 38	38. 0	6. 45	·1059	3. 10	·01120	3	50·0	50·0
8. 13	40. 30	7. 30	·1041	6. 38	·01318	9	49·0	49·0
9. 22	32. 30	9. 32	·1053	9. 45	·01220	21	42·5	
	***	18. 52	·1060	14. 50	·01362			
10. 8	39. 45	22. 23	·1036	23. 45	·01275			
	***							

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Apr.18								
h m	° ′ ″	h m		h m			°	°
14. 48	22. 32. 30							
	***							
19. 55	36. 0							
23. 55	50. 45							
Apr.19		Apr.19		Apr.19				
1. 0	22. 53. 30	0. 0	(†)	0. 30	·01430	1	43·0	43·0
3. 6	49. 45	1. 40	·1049*	9. 36	·01440	3	45·0	45·0
	(†)		(†)	23. 55	·01240	9	45·0	45·0
9. 10	47. 15	3. 40	·1061*			21	39·0	
20. 15	34. 45		(†)					
23. 55	49. 30	9. 40	·1056*					
			(†)					
		21. 40	·1038					
		23. 55	(†)					
Apr 20		Apr.20		Apr.20				
1. 15	22. 52. 15	0. 43	·1043	1. 5	·01140	1	44·0	44·5
11. 4	40. 15	7. 40	·1066	2. 40	·01050	3	47·0	47·0
	***	14. 30	·1052	7. 40	·01220	9	49·0	49·0
15. 40	30. 0	18. 13	·1073	11. 30	·01175	21	41·0	
	***	23. 33	·1038	17. 5	·01470			
21. 10	33. 45			23. 30	·01350			
23. 50	44. 30							
Apr.21		Apr.21		Apr.21				
2. 58	22. 58. 15	0. 10	·1043	0. 0	·01350	1	43·0	43·0
9. 37	41. 30	2. 13	·1063	2. 42	·01380	3	47·0	47·0
10. 38:	32. 0	2. 20	·1040	5. 37	·01210	9	49·0	
11. 5	37. 45	2. 57	·1092	8. 30:	·01235	23	45·0	45·0
	***	4. 30	·1023	11. 40	·01185			
13. 40:	46. 0	5. 26	·1046	18. 35	·01515			
14. 52	38. 0	5. 40	·1031	23. 30	·01485			
17. 52	44. 30	7. 50	·1052					
20. 32	35. 45	9. 10	·1043					
23. 38	44. 45	18. 37	·1075					
		23. 0	·1027					
Apr.22		Apr.22		Apr.22				
10. 0	22. 43. 15	0. 0	(†)	0. 0	(†)	9	47·0	47·0
12. 43	37. 45	9. 15	·1064	10. 0	·01200	21	47·0	
15. 48	44. 0	17. 0	·1052	15. 10	·01140			
21. 12	35. 30	19. 37	·1055	21. 30	·01195			
23. 40	43. 0		(†)	23. 55	·01170			
		22. 38	·1028					
		23. 25	·1023					
Apr.23		Apr.23		Apr.23				
1. 45	22. 51. 30	1. 30	·1036	0. 30	·01162	1	49·0	49·0
20. 30	36. 0	8. 55	·1051	7. 0	·01325	3	53·0	53·0
23. 53	43. 30	10. 45	·1044	19. 30	·01630	9	52·0	52·0

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^m in Göttingen Time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	Apr.23 h m		Apr.23 h m			°	°
		18. 53:	·1057	23. 55	·01580	21	46 ·0	46 ·0
		23. 30	·1014					
Apr.24		Apr.24		Apr.24				
1. 40	22. 49. 0	0. 15	·1020	0. 30	·01565	1	50 ·0	50 ·0
19. 48	31. 45	1. 38	·1025	5. 7	·01305	3	55 ·0	55 ·0
20. 53	38. 15		(†)	7. 40	·01350	9	53 ·0	53 ·0
22. 0	33. 30	4. 14	·1036	11. 15	·01298	21	48 ·0	
23. 55	43. 30	16. 33	·1043	19. 10	·01700			
			(†)		(†)			
		21. 50	·1026	21. 33	·01710			
		23. 50	·1007	23. 55	·01605			
Apr.25		Apr.25		Apr.25				
2. 40	22. 51. 15	1. 0	·1013	0. 30	·01624	1	50 ·0	50 ·0
12. 25	37. 0	5. 0	·1047	4. 15	·01400	3	54 ·0	54 ·0
14. 40	47. 0	5. 45	·1034	6. 30	·01470	9	57 ·0	
19. 40	35. 45	6. 13	·1049	12. 15	·01380	21	50 ·5	
23. 52	48. 20	7. 0	·1031	18. 30	·01725			
		12. 0	·1043	23. 40	·01645			
		17. 8	·1029					
		18. 8	·1041					
		23. 0	·1007					
Apr.26		Apr.26		Apr.26				
1. 20	22. 52. 30	0. 0	·1020	0. 0	·01650	1	50 ·0	50 ·0
9. 31	42. 0	1. 8	·1002	2. 10	·01695	3	54 ·0	54 ·0
	***	2. 43	·1035	7. 10	·01425	9	54 ·0	54 ·0
12. 20	39. 0	4. 30	·1015	11. 40	·01365	21	48 ·5	
	***	5. 33	·1039	16. 35	·01675			
14. 30	44. 0	6. 22	·1025	23. 30	·01620			
	***	14. 40:	·1042					
15. 15	40. 0	23. 40	·0992					
	***							
15. 50	44. 0							
	***							
17. 45	36. 30							
	***							
19. 30	41. 0							
	***							
21. 10	37. 45							
23. 36	45. 0							
Apr.27		Apr.27		Apr.27				
1. 38	22. 50. 15	0. 43	·0997	1. 15	·01580	1	54 ·0	54 ·0
21. 15	35. 0	5. 0	·1025	2. 52	·01368	3	60 ·0	60 ·0
23. 55	43. 15	6. 12	·1015	6. 45	·01635	9	58 ·0	
		11. 0	·1032	7. 20	·01714	21	52 ·5	
		23. 30	·0994	8. 30	·01650			
				11. 20	·01715			
				23. 0	(†)			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Apr.28 h m	° ′ ″	Apr.28 h m		Apr.28 h m				
2. 8	22. 49. 30	0. 54	·0994	2. 25	·01520	1	55 ·0	55 ·0
19. 17	36. 30	4. 52	·1031	4. 0	·01450	3	59 ·0	59 ·0
23. 53	46. 30	6. 0	·1020	6. 30	·01488	9	57 ·5	
		15. 32	·1035	10. 0	·01460	23	53 ·0	
		23. 7	·0993		(†)			
Apr.29		Apr.29		Apr.29				
0. 0	(†)	0. 0	(†)	0. 0	(†)	9	58 ·0	
9. 50	22. 42. 0	10. 38	·1017	10. 0:	·01435	21	55 ·0	55 ·0
16. 37	41. 0	17. 6	·1028	11. 10:	·01468			
16. 52	46. 0	23. 48	·0988	13. 40:	·01455			
17. 38	40. 0			19. 55:	·01675			
20. 13	35. 45			23. 55:	(†)			
23. 50	44. 0							
Apr.30		Apr.30		Apr.30				
2. 8	22. 49. 30	1. 10	·0985	1. 45	·01320	1	61 ·0	61 ·0
10. 4	40. 15	10. 20	·1019	3. 6	·01335	3	65 ·0	65 ·0
	***	14. 10	·1014	5. 45	·01210	9	65 ·0	65 ·0
18. 27	32. 15	15. 13	·1026	9. 0	·01400	21	51 ·0	51 ·0
	***	23. 30	·0980	22. 50	·01060			
18. 55	37. 15							
	***							
19. 15	33. 0							
	***							
19. 23	37. 0							
	***							
19. 44	30. 30							
	***							
20. 8	37. 0							
	***							
20. 20	32. 0							
23. 55	45. 0							
May 1		May 1		May 1				
1. 34	22. 50. 30	1. 48	·0994	0. 30	·01250	1	56 ·0	56 ·0
10. 50	35. 30	7. 46	·1028	3. 30	·01035	3	60 ·0	60 ·0
16. 15	41. 30	10. 40	·1006	7. 42	·01167	9	61 ·0	
19. 54	33. 0	12. 52	·1024	10. 33	·01082	21	54 ·0	
23. 45	46. 30	23. 30	·0996	16. 25	·01400			
				22. 40	·01242			
May 2		May 2		May 2				
0. 6	22. 47. 0	0. 0	·0994	0. 0	·01265	1	56 ·0	56 ·0
11. 9	41. 15	6. 3	·1030	4. 10	·01035	3	59 ·0	59 ·0
11. 32	48. 0	11. 3	·1020	8. 10	·01170	9	63 ·0	63 ·0
12. 14	36. 30	11. 24	·1035	11. 45	·01080	21	56 ·0	
20. 45	33. 0	11. 42	·1020	18. 5	·01458			
23. 50	46. 45	18. 0	·1025	23. 45	·01405			
		23. 7	·0996					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^{m} in Gottingen Time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 3		May 3		May 3			°	°
h m	° ′ ″	h m		h m				
2. 7	22. 50. 0	0. 0	(†)	0. 0	·01394	1	60·0	60·0
9. 26	39. 0	1. 40	·0990*	2. 7	·01170	3	66·0	66·0
	(†)		(†)	5. 25	·01310	9	67·5	
22. 3	36. 30	3. 40	·0992*	9. 36	·01200	21	59·0	
23. 45	46. 0		(†)	13. 38	·01525			
		9. 40	·1008*	23. 30	·01330			
			(†)					
		21. 45	·1002*					
		23. 55	(†)					
May 4		May 4		May 4				
1. 53	22. 48. 30	1. 8	·0990	0. 15	·01238	1	65 0	65·0
10. 30	39. 30	3. 0	·0981	1. 23	·01042	3	70·0	70·0
11. 50	31. 30	7. 6	·1012	5. 8	·01223	9	72·0	72·0
13. 12	39. 15	8. 54	·0996	8. 30	·01122	21	62·0	
21. 45	32. 30	9. 3	·1020	11. 10	·01515			
23. 40	46. 0	9. 18	·1004	23. 45	·01275			
		10 36	·1013					
		12. 0	·0984					
		13. 12	·1014					
		13. 45	·0996					
		14. 20	·1014					
		15. 7	·0997					
		18. 10:	·1007					
		22. 40	·0973					
May 5		May 5		May 5				
1. 23	22. 49. 0	1. 40	·0980	0. 30	·01208	1	69·0	69·0
8. 0	38. 5	17. 48	·1014	1. 55	·00990	3	70·0	70·0
17. 0	37. 30	22. 15	·0990	6. 0	·01140	9	69·0	56·0
23. 55	(†)			8. 15	·01122	23	56·0	
				10. 12	·01500			
				22. 25	·01215			
May 6		May 6		May 6				
0. 0	(†)	0. 0	(†)	0. 0	(†)	9	61·0	61·0
9. 45	22. 40. 0	10. 28	·1026	9. 30	·00765	21	53·0	53·0
	***	15. 20	·1027	16. 18	·01132			
15. 40	39. 0	16. 8	·0996	16. 30	·01104			
	***	16. 38	·1035	18. 30	·01150			
16. 15	54. 15	23. 30	·0992	22. 35	·01105			
	***	23. 52	·1029	23. 50	·01148			
17. 0	36. 30							
	***							
18. 32	32. 20							
	***							
23. 50	51. 0							
May 7		May 7		May 7				
2. 2	22. 56. 0	0. 38	·1009	1. 0	·00935	1	53·0	53·0
8. 20	35. 0	0. 50	·1021	5. 0	·00990	3	55·0	55·0
9. 55	41. 0	1. 42	·0998	10. 30	·00700	9	57·0	
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 7		May 7		May 7			°	°
h m	° ′ ″	h m		h m				
10. 52	22. 31. 0	2. 10	·1025	16. 20	·01128	21	50·0	50·0
	***	2. 38	·0974	23. 45	·01035			
11. 40	41. 30	3. 47	·1029					
	***	4. 7	·1002					
14. 55	45. 0	5. 4	·1039					
	***	8. 55	·1003					
20. 25	34. 15	11. 8	·1027					
23. 52	45. 30	11. 48	·1010					
		17. 22:	·1024					
		22. 50:	·0996					
May 8		May 8		May 8				
1. 15	22. 48. 0	0. 40	·0995	0. 30	·00850	1	53·0	53·0
15. 0	29. 30	15. 54:	·1027	3. 14	·00682	3	56·8	
23. 53	49. 0	21. 50	·0991	6. 0	·00768	9	56·0	56·0
		23. 30	·0993	9. 30	·00730	21	48·5	
				16. 38	·01118			
				23. 0	·01080			
May 9		May 9		May 9				
1. 30	22. 50. 0	0. 18	·0993	0. 0	·00925	1	50·0	50·0
20. 52	33. 30	18. 15:	·1027	10. 15	·00613	3	52·0	52·0
23. 40	42. 0	23. 25	·1004	20. 15	·01035	9	53·0	
				23. 0	·00950	21	48·0	
May10		May10		May10				
2. 0	22. 48. 15	0. 0	·1007	0. 0	·00782	1	50·0	50·0
11. 15	38. 45	6. 10	·1034	6. 32	·00585	3	51·0	51·0
15. 20	42. 0	22. 15	·1013	20. 0	·00840	9	51·0	51·0
20. 30	37. 15			23. 30	·00742	21	48·5	
23. 43	43. 30							
May11		May11		May11				
0. 0	(†)	0. 0	(†)	0. 0	(†)	1	50·0	50·0
1. 40	22. 45. 48*	1. 40	·1018	4. 5	·00652	3	55·0	55·0
	(†)		(†)	8. 30	00750	9	55·0	
3. 40	46. 23*	3. 40	·1017	11. 30	·00680	21	49·5	
	(†)		(†)	17. 52	·01142			
9. 40	40. 16*	9. 40	·1022	23. 30	·01050			
	(†)		(†)					
21. 40	37. 0*	21. 40	·1021					
23. 55	(†)	23. 55	(†)					
May12		May12		May12				
2. 10	22. 52. 15	0. 20	·1033	0. 0	·01025	1	53·0	53·0
7. 53	40. 15	0. 50	·1013	2. 40	·00802	3	56·0	56·0
8. 5	45. 30	1. 54	·1036	7. 15	·01055	9	58·0	58·0
8. 25	32. 30	2. 40	·0998	8. 10	·01000	22	55·0	
8. 54	39. 30	2. 52	·1024	8. 30	·01038			
11. 33	44. 0	3. 8	·1015	13. 40	·00950			
12. 14	35. 30	3. 42	·1043	18. 10	·01290			
13. 32	48. 45	5. 8	·1018	23. 55	(†)			

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^m in Göttingen Time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
May 12		May 12						
h m	° ′ ″	h m		h m			°	°
14. 5	22. 35. 30	6. 0	·1043					
15. 11	31. 30	6. 18	·1028					
16. 52	45. 0	6. 52	·1049					
18. 47	31. 0	7. 10	·1039					
23. 55	47. 45	7. 55	·1048					
		8. 15	·0988					
		8 38	·1020					
		10. 15	·1004					
		12. 10	·1006					
		12. 28	·1017					
		13. 8	·0990					
		13. 22	·1006					
		13. 38	·0996					
		14. 10	·1020					
		14. 54	·1005					
		16. 2	·1021					
		16. 15	·0993					
		17. 23	·1028					
		20. 26	·0985					
		22. 37	·0994					
		23. 10	·0984					
May 13		May 13		May 13				
1. 7	22. 50. 45	0. 33	·0986	0. 30	·01052	9	60·5	
7. 10	41. 0	1. 0	·0999	2. 55	·00805	21	53·0	53·0
7. 48	30. 30	1. 40	·0986	7. 45	·00960			
8. 0	39. 0	4. 20	·1020	10. 45	·00858			
8. 50	31. 45	4. 42	·1009	16. 52	·01292			
11. 23	42. 0	5. 22	·1030	23. 0	·01200			
19. 33	33. 0	7. 22	·1017					
23. 55	48. 0	7. 47	·1056					
		9. 12	·0998					
		12. 57;	·1014					
		17. 10	·0993					
		19. 8;	·1009					
		22 24	·0999					
		23. 55	·1006					
May 14		May 14		May 14				
0. 0	(†)	0. 0	(†)	1. 5	·01170	1	57·0	57·0
1. 40	22. 48. 22*	1. 40	·1008*	3. 56	·00910	3	65·0	65·0
	(†)		(†)	8. 35	·00985	9	65·0	65·0
3. 40	45 29*	3. 40	·1010*	9. 55	·00923	21	58·0	
	(†)		(†)	15. 35	·01368			
9. 40	37. 19*	9. 40	·1010*	23. 55	·01250			
	(†)		(†)					
21. 40	38. 25*	21. 40	·1004*					
23. 55	(†)	23. 55	(†)					
May 15		May 15		May 15				
0. 41	22. 45. 30	0. 22	·0995	0. 30	·01202	1	60·0	60·0
13. 45	40. 15	6. 50;	·1013	4. 0	·00932	3	65·0	65·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
May 15		May 15		May 15				
h m	° ′ ″	h m		h m			°	°
14. 15;	22. 44. 45	22. 25	·1001	4. 30	·00940	9	64·5	
15. 10	39. 0	23. 30	·1009	23. 0	(†)	21	57·5	
20. 16	34. 30							
23. 55	43. 0							
May 16		May 16		May 16				
2. 31	22. 47. 0	0. 35	·1002	0. 30	·01276	1	60·0	60·0
	(†)	2. 31	·1008	10. 12	·00935	3	64·0	64·0
9. 30	37. 15		(†)	18. 10	·01396	9	64·0	
22. 10	36. 30	9. 38	·1002	23. 30	·01245	21	59·0	
23. 55	47. 30	16. 30;	·1008					
		23. 55	·0995					
May 17		May 17		May 17				
1. 8	22. 50. 30	1. 34	·0983	0. 30	·01055	1	56·0	56·0
7. 12	38. 30	3. 40	·1023	9. 54	·00870	3	60·0	60·0
8. 17	42. 30	4. 11	·1001	20. 3	·01300	9	60·0	60·0
8. 45	39. 0	6. 2	·1035		(†)	21	57·0	
13. 50	37. 0	7. 0	·1021					
23. 50	50. 0	7. 20	·1035					
		8. 40	·1007					
		9. 0	·1017					
		23. 15	·0992					
May 18		May 18		May 18				
1. 38	22. 52. 0	0. 3	·0998	0. 0	·01020	1	60·0	
12. 10	41. 0		(†)	3. 40	·00840	3	60·0	
12. 40	34. 15	3. 10	·1010	9. 20	·00800	9	60·0	
14. 0	39. 0	4. 38	·1034	19. 40	·01305	21	55·5	
19. 15	34. 30	6. 25	·1015	23. 30	·01280			
23. 36	47. 30	9. 50	·1034					
		22. 0;	·0992					
May 19		May 19		May 19				
1. 17	22. 50. 15	0. 40	·0992	0. 30	·01280	1	57·1	
19. 27	34. 30	5. 12;	·1015	5. 0	·01112	3	60·0	
23. 55	48. 0	22. 30;	·0998	7. 30	·01140	9	62·5	
				10. 30	·01102	22	56·0	
				19. 30	·01582			
				23. 55	·01522			
May 20		May 20		May 20				
1. 7	22. 49. 30	0. 12	·1001	0. 30	·01322	10	55·0	
13. 7	37. 30	6. 55	·1037	4. 0	·01330	21	55·0	
14. 40	45. 45	10. 0	·1023	13. 30	·01240			
19. 6	39. 30	10. 25	·1042	13. 55	·01120			
23. 45	54. 0	11. 16	·1021	17. 50	·01160			
		14. 55;	·1036	23. 0	·01115			
		21. 2	·0986	23. 55	·00950			
		23. 22;	·0995					

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^{m} Göttingen Time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
May 21		May 21		May 21				
h m	° ′ ″	h m		h m			°	°
2. 3	22. 55. 0	1. 0	·0969	0. 0	·00935	1	57·0	
17. 48	37. 30	7. 18	·1025	1. 34	·00790	3	59·0	
23. 40	46. 30	23. 10	·0985	7. 0	·01035	9	66·0	
				10. 51	·00932	21	56·0	
				16. 27	·01377			
				23. 45	·00950			
May 22		May 22		May 22				
1. 45	22. 51. 0	1. 38	·0997	0. 30	·01312	1	58·0	
18. 37	35. 15	7. 3	·1035	11. 0	·00880	3	59·0	
23. 45	49. 0	23. 45	·0995	17. 48	·01315	9	60·0	
				23. 55	·01125	21	56·0	
May 23		May 23		May 23				
1. 15	22. 50. 30	0. 20	·0991	0. 30	·00773	1	60·0	
9. 30	41. 0	7. 18:	·1019	1. 10	·00735	3	63·0	
	(†)	9. 54	·1010	8. 0	·00953	9	64·0	
22. 3	38. 15	11. 15	·1018	9. 27	00925	21	58·0	
23. 55	47. 30	23. 20	·0978		(†)			
				21. 40	·01314			
				23. 45	·01215			
May 24		May 24		May 24				
1. 50	22. 51. 0	1. 30	·0987	0. 30	·01167	1	64·0	
20. 0	34. 55	4. 56	·0996	1. 50	·00942	3	69·0	
23. 50	43. 30		(†)	6. 40	·01108	9	69·0	
		7 42	·1005	9. 36	·01062	21	63·0	
		23. 25	·0979	14. 40	·01510			
				23. 55	·01390			
May 25		May 25		May 25				
2. 40	22. 50. 30	1. 0	·0975	0. 30	·01350	1	65·0	
19. 14	34. 30	8. 15:	·1004	3. 50	·01038	3	70·0	
23. 50	44. 30	10. 38	·0997	7. 30	·01100	9	70·5	
		11. 35	·1010	9. 42	·01058	21	61·0	
		11. 45	·0999	13. 18	·01540			
		16. 10:	·1011	23. 55	·01395			
		23. 55	·0976					
May 26		May 26		May 26				
2. 25	22. 50. 30	0. 30	·0972	0. 30	·01375	1	65·0	
6. 0	42. 30	1. 20	·0991	6. 12	·01020	3	68·0	
6. 40	33. 30	2. 42	·0978	7. 0	·01060	9	69·0	
8. 7	40. 3	3. 48	·1003	8. 30	·01018	22	62·0	
9. 52	33. 30	4. 54	·0986	8. 55	·01040			
12. 17	38. 30	7. 9	·1029	9. 5	·01240			
13. 2:	32. 0	10. 36	·0991	12. 5	·01435			
15. 7	38. 30	18. 30	·1004	23. 55	·01250			
23. 50	43. 0	21. 55	·0974					
		23. 0:	·0982					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
May 27		May 27		May 27				
h m	° ′ ′	h m		h m			°	°
2. 0	22. 46. 45	0. 0	(†)	0. 30	·01195	9	72·0	
4. 10	45. 50	9. 40	·0983*	1. 55	·00945	21	60·0	
5. 8	40. 20		(†)	5. 37	·01166			
6. 30	40. 30	21. 40	·0990*	8. 50	·01092			
8. 15	34. 30	23. 55	(†)	11. 40	·01540			
9. 5	40. 0			23. 55	·01310			
19. 10	33. 0							
	(†)							
22. 5	37. 0							
23. 40	44. 0							
May 28		May 28		May 28				
2. 17	22. 52. 30	0. 50	·1003	0. 0	·01310	1	60·0	
11. 23	37. 15	1. 55	·0991	7. 52	·01412	3	61·0	
11. 47	40. 30	2. 20	·1007	14. 37	·01342	9	60·0	
12. 32:	45. 30	2. 43	·0991	15. 10	·01250	21	56·0	
14. 0	38. 45	5. 0	·1039	17. 25	01322			
20. 25	36. 30	6. 25	·1021	18. 55	·01270			
23. 55	47. 0	6. 50	·1035	19. 40	·01295			
		12. 30	·1011	23. 45	·01205			
		13. 15:	·1023					
		23. 30	·1002					
May 29		May 29		May 29				
2. 45	22. 49. 30	0. 15	·1000	0. 30	·01051	1	60·0	
15. 0	37. 30	7. 45:	·1015	3. 25	·00780	3	64·0	
23. 47	48. 30	23. 27	·0982	7. 30:	·00930	9	69·0	
				11. 0	·00885	21	63·0	
				17. 25	·01378			
				23. 45	·01250			
May 30		May 30		May 30				
0. 55	22. 48. 0	1. 24:	·0982	0. 30	·01192	1	60·0	
18. 52	34. 0	17. 35:	·1002	2. 25	·00904	3	70·0	
23. 50	45. 0	22. 35	·0989	6. 0	·01035	9	74·0	
				9. 47	·00995	21	64·5	
				15. 38	·01490			
				23. 45	·01362			
May 31		May 31		May 31				
3. 6	22. 49. 0	0. 18	·0991	0. 30	·01338	1	68·0	
20. 28	34. 15	3. 10	·1005	5. 4	·00980	3	70·0	
23. 55	49. 0	4. 30	·0995	8. 30	·01040	9	73·0	
		18. 10	·1015	11. 0	·00995	21	65·0	
		21. 20	·0987	15. 35	·01490			
				23. 45	·01340			
June 1		June 1		June 1				
1. 32	22. 52. 0	0. 45	·0993	0. 30	·01285	1	68·0	
19. 13	34. 0	3. 47	·0977	3. 37	·00932	3	70·0	
23. 55	50. 0	6. 52	·1009	6. 30	·01055	9	72·0	
		9. 10	·0996	9. 50	·01000	21	65·0	

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^m in Göttingen Time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
h m	° ′ ″	June 1 h m		June 1 h m			°	°
		17. 0:	·1011	16. 10	·01500			
		21. 0:	·0990	21. 45	·01420			
		23. 5	·0996					
June 2		June 2		June 2				
	(†)	1. 53:	·1010		(†)	5	75·0	
7. 0	22. 40. 30	2. 13:	·1000	7. 0	·01038	23	66·0	
8. 38	30. 30	2. 43:	·1019	10. 0	·01010			
9. 45	38. 45	6. 8:	·0986	15. 20	·01510			
18. 15	34. 15	7. 8:	·0998	22. 55	·01380			
23. 40	46. 45	22. 50:	·0977					
June 3		June 3		June 3				
2. 10	22. 49. 0	0. 0	(†)	0. 35	·01345	11	73·0	
11. 36	33. 45	11. 40	·1002*	3. 30	·00975	21	64·0	
	***		(†)	7. 10	·01085			
14. 40	39. 45	21. 40	·0992*	8. 35	·01060			
	***	23. 55	(†)	9. 10	·01210			
15. 0	44. 5			13. 5	·01540			
	***			23. 55	·01338			
15. 45	40. 30							
	***							
20. 45	32. 15							
23. 55	44. 0							
June 4		June 4		June 4				
2. 30	22. 48. 30	1. 15	·0989	0. 30	·01302	1	65·0	
21. 40	32. 0	8. 5	·1005	4. 47	·00910	3	70·0	
23. 55	51. 30	23. 22	·0962	7. 10	·01000	9	72·0	
				10. 15	·00940	21	69·0	
				17. 15	·01500			
				23. 55	·01230			
June 5		June 5		June 5				
0. 30	22. 53. 0	0. 45	·0971	0. 30	·01115	1	75·0	
20. 18	31. 0	2. 3	·0984	1. 15	·00970	3	79·0	
23. 50	44. 45	2. 30	·0974	2. 35	·01045	9	75·0	
		5. 0	·1007	3. 15	·00965	21	66·0	
		9. 45	·0980	7. 45	·00945			
		10. 24	·0998	12. 50	·01425			
		11. 20	·0980	23. 45	·01255			
		14. 30	·0998					
		22. 40:	·0970					
		23. 55	·0981					
June 6		June 6		June 6				
2. 40	22. 49. 0	0. 44	·0978	0. 0	·01265	1	67·0	
10. 0	40. 30	4. 40	·1000	10. 20	·01300	3	68·0	
	***	6. 2	·1027	14. 20	·01228	9	67·0	
19. 20	30. 30	6. 52	·1007	14. 35	·01080	21	61·5	
23. 50	49. 0	11. 14	·1003	15. 45	·01115			
		16. 55	·1020	23. 45	·00950			

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h m	° ′ ″	June 6 h m		June 6 h m			°	°
		21. 20	·0968					
		23. 55	·0993					
June 7		June 7		June 7				
0. 5	22. 48. 30	0. 30	·0989	1. 0	·00872	1	66·0	
3. 57	59. 0	1. 37	·1000	3. 45	·00690	3	69·0	
4. 18	45. 30	1. 55	·0980	6. 48	·00860	9	70·0	
4. 40	52. 30	2. 52	·1002	10. 8	·00735	21	63·5	
4. 53	46. 30		(†)	16. 40	·01245			
7. 54	41. 30	10. 8	·0991	23. 55	·01210			
8. 48	28. 0	11. 5	·0976					
9. 7	43. 15	14. 8	·1001					
9. 26	32. 30	15. 42	·0990					
10. 7	41. 0	16. 46:	·1001					
11. 0	30. 15	22. 30	·0971					
11. 22	45. 15							
15. 47	36. 0							
16. 40	44. 30							
18. 56	32. 30							
23. 52	45. 15							
June 8		June 8		June 8				
0. 50	22. 46. 30	0. 0	(†)	0. 30	·01172	1	68·0	
7. 52	38. 45	1. 40	·0985*	10. 0	·00835	3	67·0	
8. 13	34. 45		(†)	16. 12	·01188	9	63·5	
8. 50	39. 30	3. 40	·0992*	23. 45	·00875	21	57·0	
10. 18	35. 0		(†)					
20. 23	31. 15	9. 40	·1002*					
23. 55	45. 0		(†)					
		21. 40	·0970*					
		23. 55	(†)					
June 9		June 9		June 9				
1. 30	22. 49. 30	0. 0	(†)	0. 0	·01110	1	62·0	
22. 16	31. 0	1. 45	·0990*	9. 58:	·00640	3	64·0	
23. 55	41. 30		(†)	16. 27	·01132	9	63·0	
		3. 45	·0992*	23. 0	·00995	22	57·0	
			(†)					
		9. 45	·1002*					
			(†)					
		22. 40	·0996*					
		23. 55	(†)					
June10		June10		June10				
1. 17	22. 46. 30	1. 30	·1002	0. 30	·01010	10	59·0	
21. 15	36. 15	6. 10	·1029	10. 55	·00815	21	56·0	
23. 55	44. 30	22. 50	·0996	15. 25:	·00955			
				15. 40	·00895			
				19. 0:	·00950			
				23. 45	·00800			

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June 11		June 11		June 11				
h m	° ′ ″	h m		h m				
3. 7	22. 51. 0	0. 52	·0996	0. 30	·00775	1	56·0	
5. 33	43. 0	5. 50	·1037	5. 30	·00485	3	60·0	
13. 9	35. 30	22. 22	·0992	7. 35:	·00525	9	62·0	
19. 50	33. 45			10. 30	·00480	21	55·0	
23. 55	44. 45			18. 42	·01050			
				21. 0	·01005			
				21. 12	·00930			
				23. 45	·00907			
June 12		June 12		June 12				
3. 33	22. 52. 0	1. 35	·1003	0. 30	·00883	1	52·0	52·5
22. 0	38. 30	3. 30	·1035	10. 25:	·00472	3	57·0	
23. 55	49. 15	6. 45	·1034	19. 12	·00860	9	58·5	
		8. 0	·1027	19. 37	·00790	21	58·0	
		10. 30	·1016	23. 30	·00592			
		11. 40	·1021					
		14. 5	·1022					
		16. 8	·1045					
		18. 3	·0991					
		18. 9	·1011					
		18. 40	·0989					
		19. 20	·1032					
		20. 3	·1012					
		20. 30:	·1028					
		23. 30	·0977					
June 13		June 13		June 13				
2. 40	22. 53. 30	1. 0	·0975	0. 30	·00490	1	60·0	
4. 45	46. 45	2. 56	·1007	0. 45	·00460	3	65·0	
5. 3	52. 15	3. 58	·1002	5. 50:	·00770	9	66·0	
5. 40	46. 45	4. 7	·0974	9. 8:	·00720	21	57·5	
5. 52	51. 30	5. 0	·1036	13. 45	·01060			
6. 8	47. 15	5. 40	·0999	23. 30	·00880			
8. 22	38. 30	5. 50	·1017					
8. 37	43. 0	6. 22	·0997					
8. 54	38. 15	7. 0	·1015					
10. 0	41. 30	7. 55	·0993					
10. 26	35. 15	8. 26	·1014					
10. 48	42. 45	8. 45	·0996					
12. 55	38. 30	9. 0	·1015					
14. 10	45. 15	10. 10	·0987					
19. 50	35. 30	10. 38	·1011					
23. 55	47. 0	11. 0	·0989					
		14. 22	·0999					
		17. 55:	·1004					
		22. 30:	·0967					
		23. 55	·0977					
June 14		June 14		June 14				
2. 30	22. 49. 0	0. 30	·0977	0. 30	·00925	1	60·0	
7. 37	39. 30	8. 15	·1009	3. 15	·00620	3	65·0	
8. 0	34. 15	20. 22	·0979	16. 15	·01130	9	64·0	

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June 14		June 14		June 14				
h m	° ′ ″	h m		h m				
8. 48	22. 39. 0	22. 0	·0988	23. 8	·01035	21	58·0	
13. 13	38. 30	23. 55	·0976					
13. 42	44. 0							
15. 30	38. 0							
16. 0	43. 30							
18. 45	30. 45							
23. 55	44. 15							
June 15		June 15		June 15				
1. 36	22. 47. 15	0. 45	·0967	1. 0	·00815	1	60·0	
20. 8	33. 30	7. 8	·1010	2. 45	·00625	3	66·0	
23. 55	44. 45	22. 1	·0984	8. 0:	·00720	9	68·0	
		23. 55	·0997	10. 0:	·00718	21	60·0	
				18. 35	·01240			
				23. 45	·01180			
June 16		June 16		June 16				
2. 58	22. 46. 45	0. 30	·1002	0. 30	·01180	1	60·0	
18. 0	36. 15	17. 10:	·1017	5. 42	·00725	3	63·0	
22. 50	44. 30	22. 36	·0992	7. 0	·00755	9	65·0	
				10. 0	·00723	21	56·0	
				17. 35	·01235			
				23. 0	·01172			
June 17		June 17		June 17				
0. 38	22. 50. 0	1. 0	·1000	0. 0	·01170	11	61·0	
20. 24	35. 15	11. 21	·1021	10. 30:	·00760	21	59·5	
23. 50	46. 45	23. 48	·0991	16. 12	·01175			
				18. 15	·01150			
				19. 30	·01200			
				23. 30	·00990			
June 18		June 18		June 18				
2. 20	22. 48. 30	0. 10	·0997	3. 45	·00670	1	65·0	
18. 35	34. 0	0. 35	·0981	12. 50	·01270	3	67·0	
23. 55	48. 0	1. 37	·0996	23. 55	·01058	9	68·5	
		2. 25	·0970			21	55·0	
		7. 5	·1010					
		22. 30	·0982					
June 19		June 19		June 19				
0. 48	22. 49. 45	0. 30	·1000	0. 30	·01040	1	60·0	
10. 3	39. 30	4. 50	·1023	10. 55:	·00735	3	60·0	
13. 3	45. 30	5. 26	·1005	21. 10	·00905	9	61·0	
17. 40	32. 45	8. 8:	·1025	23. 40	·00764	21	61·0	
20. 8	40. 30	9. 47	·1009					
20. 18	36. 0	17. 2:	·1020					
21. 12	48. 0	20. 40	·0969					
22. 12	45. 0	21. 38	·0999					
23. 3	49. 30	23. 30	·0984					

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June20	° ′ ″	June20		June20			°	°
h m		h m		h m				
1. 55	22. 49. 0	0. 30	·0995	0. 0	·00752	1	61 ·0	
16. 20	36. 0	2. 25	·0980	2. 8	·00597	3	66 ·0	
17. 10	40. 0	3. 40	·1009	6. 25	·00767	9	68 ·0	
17. 37	34. 30	4. 32	·0985	8. 15	·00750	21	63 ·0	
18. 27	50. 30	6. 4	·1016	16. 42	·01225			
19. 17	39. 0	6. 20	·1000	19. 5	·01140			
23. 50	48. 0	7. 36	·1024	22. 20	·01150			
		9. 15	·0999	23. 30	·01075			
		17. 30	·1017					
		18. 23	·0986					
		18. 53	·1006					
		21. 50	·0974					
		23. 23	·0991					
		23. 55	·0978					
June21		June21		June21				
2. 10	22. 53. 0	0. 30	·0982	0. 30	·01115	1	65 ·0	
21. 6	32. 0	9. 40	·1013	3. 32	·00740	3	67 ·0	
22. 10	35. 0	11. 8	·0987	9. 10	·00838	9	70 ·0	
		18. 0:	·1007	14. 35	·01303	21	62 ·0	
		23. 20	·0975	22. 10	·01155			
				23. 45	·01180			
June22		June22		June22				
2. 15	22. 50. 0	1. 35	·0983	0. 30	·01175	1	60 ·0	
20. 52	33. 30	4. 20	·1016	5. 45	·00752	3	65 ·0	
23. 55	46. 45	11. 30	·0994	7. 45	·00800	9	70 ·5	
		18. 2:	·1008	8. 55	·00770	21	64 ·0	
		22. 44	·0972	15. 40	·01260			
				21. 40	·01195			
				23. 55	·00918			
June23		June23		June23				
2. 15	22. 50. 30	0. 30	·0972	0. 30	·00830	1	70 ·0	
	***	18. 0:	·0993	1. 30	·00695	3	75 ·0	
9. 10	38. 0	23. 0	·0962	14. 10	·01425	9	75 ·0	
19. 8	31. 30			23. 55	·01295	23	72 ·0	
23. 55	44. 30							
June24		June24		June24				
2. 20	22. 49. 0	0. 30	·0972	0. 30	·01282	11	69 ·0	
14. 16	40. 0	3. 30	·0996	6. 30	·00818	21	63 ·0	
17. 10	30. 30	5. 0	·0983	12. 10	·01290			
20. 3	36. 0	14. 42:	·1021	23. 45	·01080			
20. 12	32. 30	22. 30	·0997					
23. 55	44. 30	22. 38	·1026					
		22. 55	·1007					
June25		June25		June25				
3. 0	22. 48. 15	1. 5	·0995	0. 30	·01040	1	64 ·0	
20. 7	31. 45	2. 10	·0987	5. 0	·00675	3	70 ·0	
23. 55	48. 0	3. 15	·1009	18. 45	·01250	9	69 ·0	

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	° ′ ″	June25		June25			°	°
		h m		h m				
		6. 20	·0994	23. 45	·01060	21	64 ·0	
		8. 10:	·1013					
		23. 10	·0977					
June26		June26		June26				
1. 45	22. 48. 15	1. 18	·0983	0. 30	·01045	1	68 ·0	68 ·0
9. 30	38. 0	4. 15	·1013	5. 21	·00715	3	70 ·0	70 ·0
	(†)	23. 33	·0991	9. 27	·00742	9	73 ·0	73 ·0
21. 55	38. 0				(†)	21	65 ·0	65 ·0
23. 50	45. 30			21. 55	·01220			
				23. 55	·01115			
June27		June27		June27				
1. 10	22. 47. 0	0. 7	·0992	0. 15	·01095	1	70 ·0	70 ·0
5. 32	35. 0	0. 55	·0979	3. 42	·00768	3	75 ·0	75 ·0
6. 10	42. 30	4. 56	·1028	5. 40	·00845	9	77 ·0	77 ·0
20. 7	32. 0	5. 26	·1000	8. 10:	·00827	21	64 ·0	64 ·0
23. 55	43. 45	7. 3	·1020	15. 8	·01325			
		21. 58	·0960	23. 45	·01195			
		23. 37	·0989					
June28		June28		June28				
2. 30	22. 49. 0	1. 0	·0971	0. 45	·01205	1	65 ·0	65 ·0
9. 44	38. 15	4. 47	·1024	10. 45:	·00982	3	65 ·0	65 ·0
13. 37	46. 0	5. 30	·1008	15. 52	·01235	9	68 ·0	68 ·0
17. 43	34. 45	6. 55	·1026	23. 55	·01020	21	62 ·5	62 ·5
23. 55	46. 0	23. 54	·0983					
June29		June29		June29				
1. 25	22. 49. 0	0. 45	·0982	0. 15	·00995	1	65 ·0	65 ·0
10. 22	36. 30	10. 40	·1020	9. 55	·00585	3	66 ·0	66 ·0
16. 8	42. 0	23. 50	·0997	17. 0	·00835	9	66 ·0	66 0
19. 50	35. 0			23. 30	·00700	21	61 ·0	61 ·0
23. 55	47. 30							
June30		June30		June30				
2. 22	22. 51. 30	0. 10	·1000	0. 30	·00690	1	65 ·0	65 ·0
11. 55	36. 45	13. 8	·1018	8. 45:	·00565	3	65 ·0	65 ·0
13. 7	40. 0	13. 25	·1032	16. 35	·01057	9	66 ·0	66 ·0
13. 30	46. 45	13. 55	·1013	23. 20	·00872	22	56 ·0	56 ·0
14. 10	42. 30	23. 15	·0985					
19. 8	35. 30							
23. 15	47 ·30							
July 1		July 1		July 1				
2. 12	22. 49. 30	0. 45	·0982	0. 0	·00800	12	70 ·0	70 ·0
18. 17	36. 15	5. 20	·1003	2. 24	·00555	21	66 ·8	67 ·0
23. 54	48. 5	22. 30	·0989	7. 32	·00800			
				9. 15	·00785			
				19. 22	·01330			
				23. 45	·01235			

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40m in Göttingen Time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 2		July 2		July 2				
h m	° ′ ″	h m		h m			°	°
0. 45	22. 48. 30	1. 0	·0983	0. 45	·01235	1	65 ·0	
18. 14	32. 0	6. 30	·1001	6. 14	·01185	3	70 ·0	
23. 55	44. 30	9. 35	·0994	10. 22	·01280	9	69 ·0	
		17. 0	·1013	23. 45	·00895	21	63 ·5	
		23. 53	·0991					
July 3		July 3		July 3				
2. 45	22. 50. 15	1. 40	·0995	1. 0	·00915	1	65 ·0	
12. 15	38. 15	5. 13	·1035	5. 0	·00690	3	68 ·0	
14. 8	44. 30	5. 40	·1019	7. 30	·00755	9	69 ·5	
15. 42	29. 30	6. 4	·1032	10. 0;	·00713	21	60 ·0	
16. 10	35. 0	6. 20	·0998	19. 4	·01220			
16. 25	29. 0	7. 20;	·1023	23. 45	·01165			
19. 3	45. 0	9. 20	·0994					
20. 45	36. 30	14. 7	·1018					
23. 50	47. 15	15. 43	·1004					
		16. 10	·1019					
		23. 40	·0981					
July 4		July 4		July 4				
2. 23	22. 54. 0	0. 25	·0984	0. 30	·01173	1	65 ·0	
8. 12	44. 0	2. 30	·0996	10. 1	·00940	3	67 ·0	
9. 0	32. 45	3. 20	·0975	14. 38	·01230	9	68 ·0	
9. 47	41. 0	5. 0	·1026	23. 45	·01102	21	62 ·0	
11. 37	42. 0	8. 45	·1005					
12. 0	36. 0	9. 10	·1032					
17. 0	46. 45	10. 7	·1002					
18. 27	34. 0	10. 34	·1011					
23. 55	45. 45	22. 30;	·0962					
		23. 55	·0987					
July 5		July 5		July 5				
3. 3	22. 50. 30	0. 45	·0995	1. 0	·01082	1	65 ·0	
9. 32	39. 30	4. 22	·1024	9. 56;	·00655	3	65 ·0	
9. 50	46. 0	5. 45	·1003	17. 32	·01190	9	68 ·0	
10. 30	40. 0	9. 40	·1033	23. 45	·01030	21	64 ·5	
19. 45	35. 45	11. 20	·0997					
23. 55	49. 0	18. 28	·1005					
		23. 55	·0977					
July 6		July 6		July 6				
1. 40	22. 52. 0	0. 50	·0973	0. 30	·00910	1	65 ·0	
20. 24	34. 15	5. 5	·1010	3. 0	·00660	3	70 ·0	
23. 55	47. 0	23. 40	·0958	8. 15	·00758	9	73 ·5	
				15. 50	·01318	21	69 ·0	
				23. 45	·01080			
July 7		July 7		July 7				
2. 0	22. 50. 45	0. 45	·0960		(†)	1	75 ·0	
18. 50	32. 15	17. 15	·1006			3	77 ·0	
23. 55	48. 15	23. 55	·0958			10	78 ·0	
						23	74 ·0	

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 8		July 8		July 8				
h m	° ′ ″	h m		h m			°	°
1. 40	22. 51. 0	0. 30	·0961	0. 30	·00890	9	79 ·0	
12. 0	34. 30	2. 18	·0967	2. 5	·00710	21	66 ·0	
15. 40	37. 0		(†)	4. 30;	·00818			
18. 50	32. 30	9. 42	·0983	5. 20	·00785			
23. 55	43. 30	15. 50	·0992	5. 35	·00830			
		22. 48	·0965	6. 30	·00810			
				13. 33	·01277			
				23. 30	·01135			
July 9		July 9		July 9				
2. 13	22. 48. 30	0. 30	·0975	0. 30	·01090	1	70 ·0	
11. 30	35. 30	5. 8	·1006	4. 15	·01015	3	75 ·0	
13. 13	37. 45	11. 25	·0982	7. 0	·01050	9	75 ·0	
13. 32	47. 45	12. 6	·1000	9. 0	·00996	21	65 ·5	
14. 10	31. 0	13. 12	·0988	13. 24	·01183			
15. 33	24. 0	13. 25	·1032	17. 0	·01040			
16. 26	34. 0	13. 52	·0990	23. 45	·01000			
17. 12	27. 30	14. 30	·1017					
23. 55	43. 30	15. 40	·0993					
		16. 24	·1018					
		23. 52	·0964					
July 10		July 10		July 10				
2. 37	22. 47. 30	0. 30	·0965	0. 30	·00988	1	71 ·0	
20. 52	32. 30	17. 30;	·1000	12. 0	·00710	3	75 ·0	
23. 55	46. 0	23. 50	·1055	17. 40	·01105	9	74 ·5	
				23. 45	·01015	21	67 ·5	
July 11		July 11		July 11				
2. 47	22. 49. 0	0. 50	·0971	0. 45	·00955	1	72 ·0	
18. 43	34. 15	17. 20;	·1022	4. 30;	·00685	3	75 ·0	
23. 55	48. 15	23. 0	·0992	8. 10	·00705	9	73 ·0	
				11. 30	·00918	21	63 ·0	
				23. 55	·00885			
July 12		July 12		July 12				
1. 45	22. 50. 0	0. 30	·0998	0. 20	·00595	1	70 ·0	
13. 36	38. 0	2. 18	·0973	1. 50	·00464	3	75 ·0	
14. 53	42. 0	4. 53	·1000	4. 50	·00640	9	78 ·0	
15. 10	34. 0	5. 18	·0973	15. 32	·01130	21	65 ·0	
15. 45	41. 45	14. 55	·1025	23. 15	·00862			
18. 15	35. 15	15. 30	·0989					
23. 50	49. 30	16. 55	·1007					
		23. 20	·0984					
July 13		July 13		July 13				
1. 38	22. 51. 15	0. 30	·0988	0. 30	·00780	1	72 ·0	
9. 20	39. 0	3. 15	·1006	4. 15	·00635	3	75 ·0	
	***	23. 55	·0979	5. 40	·00695	9	75 ·0	
10. 0	42. 0			7. 45	00705	21	63 ·0	
	***			15. 7	·01095			
12. 43	37. 30			23. 45	·00835			
	***							

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 13								
h m	° ′ ″	h m		h m			°	°
14. 13	22. 38. 0							
	***							
14. 45	29. 45							
	***							
16. 0	37. 0							
	***							
18. 30:	34. 30							
	***							
23. 55	47. 15							
July 14		July 14		July 14				
2. 5	22. 50. 45	1. 0	·0984	0. 30	·00520	1	68 ·0	
5. 0	40. 15	19. 53:	·1008	2. 0	·00398	3	75 ·0	
	***	23. 30	·0985	17. 7:	·00985	9	72 ·0	
9. 0	40. 30			23. 15:	·00830	21	61 ·0	
9. 36	46. 0							
10. 30	41. 15							
12. 37	44. 30							
14. 40	38. 0							
16. 10	39. 33							
18. 30	35. 0							
23. 10	45. 30							
July 15		July 15		July 15				
2. 22:	22. 48. 15	0. 0	·0980	0. 0	·00800	11	71 ·0	
11. 8	43. 15	7. 15	·1024	10. 0:	·00415	21	62 ·5	
12. 8	36. 0	8. 28	·1001	15. 55:	·00760			
13. 8	48. 0	11. 13	·1020	23. 15	·00525			
14. 15	38. 15	12. 45	·0997					
15. 30	42. 30	13. 40	·1010					
19. 13	35. 15	14. 45	·0998					
23. 55	50. 15	16. 7	·1010					
		23. 0	·0982					
July 16		July 16		July 16				
0. 48:	22. 51. 0	1. 6	·0885	1. 0	·00402	1	68 ·0	
9. 27	40. 0	16. 42:	·1017	2. 20	·00308	3	73 ·0	
	***	23. 40	·0978	16. 40:	·00970	9	72 ·5	
20. 18:	36. 15			23. 55	·00825	21	65 ·0	
	***							
23. 55	46. 0							
July 17		July 17		July 17				
2. 38:	22. 45. 0	0. 30	·0985	0. 30	·00770	1	70 ·0	
	***	7. 15:	·1026	6. 15	·00560	3	70 ·0	
10. 54	42. 0	8. 0	·1016	18. 45:	·00725	9	68 ·0	
	**	8. 36:	·1025	23. 55	·00642	21	64 ·0	
11. 20	36. 0	10. 23	·1013					
	***	10. 56	·1038					
20. 40	34. 15	11. 18	·1023					
23. 55	46. 0	22. 55	·0984					
		23. 55	·0995					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 18		July 18		July 18				
h m	° ′ ″	h m		h m			°	°
2. 4	22. 48. 0	0. 40	·0995	1. 0	·00605	1	65 ·0	
	***	7. 0	·1029	6. 5	·00415	3	68 ·0	
10. 0	37. 0	23. 15:	·0988	17. 15	·00580	9	65 ·0	
	***			23. 55	·00375	21	60 ·0	
12. 24	42. 0							
	***							
13. 3	36. 15							
	***							
14. 37	40. 0							
	***							
16. 32	36. 45							
	***							
17. 5	40. 0							
	***							
19. 33:	34. 0							
	***							
23. 55	48. 30							
July 19		July 19		July 19				
2. 10:	22. 49. 30	0. 40	·0997	0. 30	·00360	1	62 ·0	
	***	11. 45:	·1030	9. 10:	·00148	3	65 ·0	
20. 0	35. 30	23. 25:	·0973	13. 10	·00287	9	63 ·0	
23. 55	46. 0			23. 55	·00080	21	56 ·0	
July 20		July 20		July 20				
2. 42	22. 51. 45	1. 0	·0985	1. 0	·00060	1	60 ·0	
10. 25	37. 15	10. 30	·1019	2. 10	·00022	3	61 ·0	
13. 20	40. 0	12. 55	·1000	7. 0	·00200	9	63 ·0	
14. 55	34. 0	16. 0	·1022	11. 0:	·00155	21	58 ·0	
15. 50	44. 45	23. 8	·0983	19. 30:	·00420			
16. 30	36. 30			23. 55	·00250			
19. 23	30. 30							
23. 55	47. 15							
July 21		July 21		July 21				
1. 45:	22. 51. 15	1. 8	·0984	0. 30	·00222	1	60 ·0	
9. 31	40. 45	6. 12	·1020	2. 40	·00130	3	65 ·0	
	***	22. 48	·0971	7. 0	·00325	9	68 ·0	
14. 23	40. 0			9. 50:	·00280	22	63 ·5	
	***			21. 15	·00833			
14. 40	44. 30			23. 30	·00810			
	***							
17. 40	30. 15							
18. 47	41. 0							
20. 3	33. 30							
23. 30	43. 45							
July 22		July 22		July 22				
2. 38:	22. 49. 30	1. 22	·0961	0. 0	·00760	11	66 ·0	
10. 30	39. 45	4. 32	·0983	5. 35	·00368	21	63 ·8	
11. 30	30. 30	6. 0	·1023	7. 20	·00397			
11. 42	35. 0	6. 33	·0986	12. 0	·00318			

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 22	° ′ ″	July 22		July 22			▫	○
h m		h m		h m				
11. 55	22. 30. 30	7. 40	·1005	22. 0	·00815			
12. 8	34. 30	19. 0	·0992	23. 15	·00780			
12. 40	30. 0	21. 20	·0948					
13. 48	37. 0	23. 15	·0955					
15. 33	31. 13							
23. 43	45. 0							
July 23		July 23		July 23				
3. 12:	22. 47. 45	1. 30	·0977	1. 30	·00685	1	64 ·0	
	***	5. 33	·1023	4. 0	·00610	3	65 ·0	
9. 40	35. 30	5. 57	·0995	10. 45	·00552	9	65 ·0	
	***	6. 15	·1007	13. 20	·00635	21	60 ·0	
12. 56	39. 45	7. 47	·1026	13. 50	·00550			
	***	9. 24	·0996	15. 5	·00705			
13. 37	50. 0	13. 38	·1031	15. 30	·00630			
	***	14. 1	·0987	18. 5	·00667			
14. 2	31. 30	15. 10	·1029	23. 55	·00395			
	***	16. 0	·1002					
16. 20	45. 15	19. 29	·1003					
	***	20. 45	·0955					
17. 54	33. 30	23. 0	·0990					
	***	23. 55	·0984					
18. 15	43. 30							
	***							
18. 55	33. 0							
21. 30	47. 0							
22. 40	41. 15							
23. 55	44. 30							
July 24		July 24		July 24				
2. 37:	22. 48. 30	0. 40	·0976	0. 30	·00368	1	60 ·0	
	***	3. 23	·0986	7. 37	·00240	3	62 ·5	
9. 13	39. 0	4. 40	·1025	10. 25	·00200	9	63 ·0	
	***	5. 38	·1005	15. 40	·00385	21	59 ·5	
9. 29	31. 30	9. 10	·1002	15. 50	·00330			
	***	9. 29	·1016	19. 0	·00375			
10. 8	40. 45	10. 27	·0993	23. 55	·00210			
	***	23. 33	·0963					
10. 53	36. 0							
	***							
12. 40	39. 0							
	***							
13. 8	47. 15							
	***							
13. 47	38. 15							
	***							
20. 33	33. 0							
	***							
23. 55	46. 0							
July 25		July 25		July 25				
1. 48	22. 49. 0	0. 30	·0970	0. 35	·00200	1	63 ·0	
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 25	° ′ ″	July 25		July 25			○	○
h m		h m		h m				
11. 7	22. 36. 15	2. 24	·0980	3. 7	·00322	3	65 ·0	
	***	3. 3	·1004	11. 40:	·00168	9	64 ·0	
12. 3	43. 30	6. 3	·1017	20. 30	·00657	21	60 ·0	
	***	10. 20	·1004	23. 55	·00427			
13. 2	38. 30	11. 15	·1021					
	***	11. 40	·1001					
13. 45	44. 0	12. 3	·1018					
	***	13. 32	·0992					
15. 15	37. 45	14. 33	·1006					
	***	23. 40:	·0978					
19. 20:	32. 30							
	***							
22. 40	42. 15							
July 26		July 26		July 26				
2. 30	22. 52. 0	0. 30	·0984	1. 0	·00375	1	65 ·0	
	***	1. 0	·0992	5. 45	·00175	3	65 ·0	
9. 43	38. 0	1. 33	·0982	14. 10	·00290	9	63 ·0	
	***	9. 35	·1010	18. 22	·00222	21	58 ·0	
16. 20	45. 0	9. 50	·1022	20. 40	·00278			
	***	10. 25	·1002	23. 55	·00075			
20. 28:	37. 0	23. 30	·0980					
23. 45	47. 30							
July 27		July 27		July 27				
1. 45:	22. 48. 15	2. 0	·0983	1. 0	·00335	1	63 ·0	
19. 30	36. 30	3. 20	·1009	6. 0	·00500	3	65 ·0	
23. 55	46. 0	6. 20	·0988	6. 25	·00570	9	69 ·0	
		7. 40	·1005	10. 40:	·00430	21	61 ·5	
		8. 10	·0992	16. 0	·00663			
		23. 45:	·0973	19. 10	·00650			
				21. 20	·00735			
				23. 55	·00694			
July 28		July 28		July 28				
0. 0	(†)	1. 25	·0974	1. 0	·00595	1	66 ·0	
1. 40	22. 49. 28	3. 52	·0996	2. 2	·00510	3	70 ·0	
	(†)	4. 55:	·0981	4. 10:	·00555	9	68 ·0	
3. 40	47. 1	7. 45:	·0996	7. 40	·00440	22	64 ·0	
	(†)	22. 18	·0979	8. 15	·00505			
10. 0	38. 25			23. 40	·00690			
	(†)							
22. 40	39. 17							
23. 55	(†)							
July 29		July 29		July 29				
1. 30	22. 49. 0	0. 24	·0991	0. 0	·00803	9	66 ·0	
20. 10:	35. 30	5. 26	·1015	10. 30	·00615	21	60 ·0	
23. 45	44. 0	6. 40	·1001	14. 47	·00817			
		7. 20	·1007	18. 55	·00778			
		8. 0	·0999		(†)			
		22. 45:	·0982					

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July 30		July 30		July 30				
h m	° ′ ″	h m		h m			°	°
1. 13:	22. 47. 0	1. 30:	·0992	1. 0	·00295	1	65·0	
9. 38	37. 30	10. 30	·0997	2. 30	·00350	3	69·0	
17. 40:	31. 15	14. 55	·1005	3. 25	·00250	9	68·5	
23. 55	45. 0	23. 40:	·0981	10. 30:	·00105	21	62·2	
				16. 10	·00500			
				23. 55	·00465			
July 31		July 31		July 31				
1. 40:	22. 45. 45	0. 10	·0986	0. 30	·00705	1	65·0	
6. 30	37. 15	1. 38	·0997	9. 31	·00310	3	68·0	
9. 35	37. 30	2. 8	·0988	10. 30	·00345	9	60·8	
	(†)	2. 47	·1000	12. 0	·00275	21	60·8	
18. 37	40. 0	3. 42	·0981	12. 45	·00315			
19. 12	47. 15	4. 34	·1027	13. 45	·00227			
21. 0	38. 0	6. 8	·0987	18. 15	·00695			
23. 3	45. 0	10. 8	·1004	19. 40	·00638			
		10. 32	·1024	23. 30	·00684			
		12. 25	·0969					
		13. 0	·0998					
		14. 20	·0991					
		15. 20	·0957					
		15. 52	·0978					
		23. 7	·0952					
Aug. 1		Aug. 1		Aug. 1				
1. 55	22. 51. 0	0. 10	·0973	0. 30	·00755	1	64·0	
9. 20	34. 30	1. 22	·0997	7. 42	·00300	3	65·0	
13. 29	43. 0	2. 8	·0983	9. 20	·00338	9	66·5	
16. 8	34. 15	3. 8	·1003	13. 45	·00335	21	60·0	
17. 0	36. 30	3. 48	·0987	20. 10	·00790			
20. 52	34. 0	6. 18	·1007	23. 45	·00750			
23. 55	46. 0	7. 7	·0989					
		9. 37	·1007					
		20. 52:	·0975					
		23. 52	·0977					
Aug. 2		Aug. 2		Aug. 2				
1. 45:	22. 51. 15	0. 36	·0977	0. 30	·00735	1	65·0	
20. 40:	36. 0	16. 40:	·0998	5. 25	·00350	3	66·0	
23. 55	45. 0	23. 55	·0981	10. 15	·00335	9	70·0	
				23. 55	·00875	21	65·0	
Aug. 3		Aug. 3		Aug. 3				
2. 40:	22. 50. 0	0. 40	·0980	1. 0	·00885	1	63·0	
21. 2	37. 15	17. 2	·1009	4. 0:	·00910	3	65·0	
23. 55	46. 45	23. 5	·0981	9. 29	·00805	9	65·0	
				12. 30	·00882	21	55·0	
				16. 0	·00815			
				16. 50	·00880			
				23. 55	·00740			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Aug. 4		Aug. 4		Aug. 4				
h m	° ′ ″	h m		h m			°	°
1. 30:	22. 49. 30	1. 0	·0993	1. 0	·00630	1	60·0	
11. 0	34. 30	11. 35	·1005	4. 30	·00230	3	65·0	
23. 55	(†)	22. 45	·0981	17. 34	·00802	9	67·0	
				23. 55	·00700	22	58·5	
Aug. 5		Aug. 5		Aug. 5				
2. 15:	22. 48. 0	0. 30	·0992	0. 30	·00668	9	68·0	
19. 50	34. 30	3. 30	·1007	4. 35	·00250	21	59·5	
23. 8	41. 30	23. 52:	·0982	7. 30:	·00318			
				10. 15:	·00270			
				19. 25	·00840			
				23. 30	·00820			
Aug. 6		Aug. 6		Aug. 6				
2. 10	22. 48. 45	1. 30	·0991	1. 30	·00750	1	65·0	
20. 0	33. 30	11. 0	·0994	4. 40	·00345	3	70·0	
23. 55	46. 30	16. 0	·0992	7. 50	·00390	9	70·0	
		23. 10:	·0971	7. 53	·00472	21	61·5	
				8. 35	·00435			
				16. 42	·00925			
				23. 55	·00755			
Aug. 7		Aug. 7		Aug. 7				
2. 15	22. 51. 15	1. 40	·0991	1. 0	·00650	1	65·0	
12. 0	36. 0	12. 23	·0997	3. 50	·00370	3	75·0	
20. 2:	35. 0	23. 20:	·0971	20. 35	·00987	9	74·5	
23. 40	46. 15			23. 55	·00960	21	70·0	
Aug. 8		Aug. 8		Aug. 8				
2. 16	22. 53. 30	0. 10	·0975	0. 0	·00957	1	74·0	
	***	1. 55	·0979	4. 54	·00498	3	76·0	
13. 0	35. 30	2. 18	·1000	8. 15	·00495	9	77·0	
15. 40:	41. 0	3. 30	·0924	15. 18	·01035	21	67·0	
21. 15:	35. 0	8. 8	·0990	23. 30	·00880			
23. 50	43. 30	8. 11	·1022					
		9. 0	·0997					
		23. 25	·0974					
Aug. 9		Aug. 9		Aug. 9				
3. 36	22. 53. 0	0. 38	·0923	0. 0	·00850	1	69·0	
7. 38	40. 30	3. 32	·1024	10. 15	·00440	3	70·0	
8. 8	44. 30	4. 25	·0996	10. 45	·00365	9	72·0	
9. 2	36. 30	4. 55	·1013	11. 30	·00422	21	65·0	
9. 39	39. 0	5. 14	·0997	20. 55	·00887			
10. 5	36. 0	5. 50	·1016	23. 30	·00778			
10. 46	46. 45	6. 30	·1000					
12. 43	30. 45	6. 53	·1019					
13. 1	35. 30	7. 8	·0987					
13. 17	30. 15	7. 42	·1005					
13. 50	36. 30	8. 55	·0979					
14. 17	30. 0	23. 5:	·0972					
15. 9	38. 0							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Aug. 9								
h m	° ′ ″	h m		h m			°	°
15. 40	22. 35. 0							
20. 18	42. 30							
23. 40	48. 15							
Aug. 10		Aug. 10		Aug. 10				
1. 24	22. 48. 15	0. 25	·0971	0. 0	·00675	1	70 ·0	
9. 20	38. 0	0. 50	·0982	3. 20	·00415	3	75 ·0	
10. 18	39. 30	1. 50	·0963	6. 0	·00485	9	77 ·0	
12. 0	39. 0	3. 30	·0986	8. 40	·00432	21	69 ·0	
12. 20	43. 20	23. 8	·0965	17. 38	·01005			
13. 10	37. 0			23. 30	·00950			
14. 0	36. 15							
18. 50	33. 0							
23. 55	42. 30							
Aug. 11		Aug. 11		Aug. 11				
1. 40:	22. 46. 30	1. 0	·0963	0. 45	·00900	1	74 ·0	
	***	5. 2:	·0985	5. 30	·00432	3	77 ·0	
11. 55	36. 0	6. 30:	·0975	7. 50	·00412	9	75 ·0	
	***	17. 0:	·0999	18. 30	·01000	22	66 ·0	
12. 55	41. 0	23. 25	·0976	23. 30	·00958			
	***							
15. 46	35. 0							
	***							
20. 18:	36. 30							
23. 28	43. 45							
Aug. 12		Aug. 12		Aug. 12				
2. 5:	22. 48. 0	0. 25	·0971	0. 0	·00940	9	69 ·0	
4. 30	44. 0	5. 50	·1011	10. 5	·00750	21	65 ·0	
	***	8. 38	·0982	23. 55	(†)			
8. 53	36. 30	14. 43	·1013					
	***	16. 30	·0991					
9. 10	39. 30	17. 7	·1010					
	***	23. 7	·0979					
11. 18	35. 45							
	***							
11. 45	39. 30							
	***							
14. 42	40. 0							
	***							
15. 5	34. 15							
	***							
16. 22	42. 0							
	***							
18. 40	31. 30							
	***							
18. 56	37. 15							
	***							
19. 35	31. 30							
	***							
20. 3	37. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Aug. 12								
h m	° ′ ″	h m		h m			°	°
20. 22	22. 34. 0							
	***							
23. 45	43. 15							
Aug. 13		Aug. 13		Aug. 13				
1. 50	22. 50. 30	1. 0	·0984	1. 30	·00760	1	68 ·0	
9. 30	36. 15	5. 20	·0976	8. 0:	·00500	3	70 ·0	
	***	9. 52	·1000	12. 25	·00710	9	67 ·0	
10. 35	26. 0	10. 10	·1018	14. 35	·00818	21	61 ·0	
	***	10. 28	·1004	15. 52	·00770			
10. 48	32. 30	12. 0	·0983	18. 48	·00830			
	***	13. 30	·1009	23. 45	·00750			
11. 45	25. 0	14. 45	·0992					
	***	15. 20	·1012					
12. 40	46. 0	15. 52	·0983					
	***	17. 15	·1011					
14. 0	30. 0	22. 40	·0964					
	***							
14. 57	43. 0							
	***							
16. 0	34. 0							
	***							
16. 30	40. 0							
	***							
17. 0	37. 0							
	***							
23. 50	44. 0							
Aug. 14		Aug. 14		Aug. 14				
1. 37:	22. 48. 0	0. 0	·0976	0. 0	·00740	1	63 ·5	
	***	6. 40	·1002	9. 40:	·00212	3	64 ·5	
19. 40:	34. 15	22. 25	·0976	23. 0:	·00830	9	66 ·0	
	***					21	61 ·0	
23. 55	42. 0							
Aug. 15		Aug. 15		Aug. 15				
1. 4:	22. 45. 0	0. 40	·0990	1. 0	·00750	1	65 ·0	
13. 15	37. 0	18. 10:	·1003	5. 45	·00290	3	69 ·0	
	***	22. 52	·0982	9. 56	·00260	9	66 ·0	
23. 55	44. 0			17. 48	·00862	21	62 ·0	
				23. 55	·00715			
Aug. 16		Aug. 16		Aug. 16				
1. 8	22. 45. 45	1. 0	·0981	0. 45	·00672	1	64 ·0	
	***	5. 22	·0994	2. 37	·00572	3	65 ·0	
6. 22	40. 0	5. 52	·1029		(†)	9	64 ·0	
	***	6. 45	·1014			21	57 ·0	
7. 17	28. 30	7. 22	·1032					
	***	8. 40	·0990					
7. 37	39. 0	9. 16	·1019					
	***	9. 52	·0986					
7. 47	29. 0	10. 13	·1002					
	***							

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Aug.16	° ′ ″	Aug.16					°	°
h m		h m		h m				
8. 8	22. 35. 0	10. 45:	·0991					
	***	18. 50	·1006					
8. 13	32. 0	22. 55:	·0985					
	***							
9. 38	42. 30							
	***							
10. 0	30. 30							
	***							
10. 30	39. 0							
	***							
20. 0	35. 0							
23. 55	46. 0							
Aug.17		Aug.17		Aug.17				
0. 32	22. 46. 20	1. 0	·0991	0. 0	(†)	1	63 ·0	
2. 0	46. 40	5. 56	·1007	9. 30	·00450	3	65 ·0	
	***	23. 18	·0980	15. 38	·00672	9	63 ·0	
8. 10	34. 0			23. 55	·00635	21	57 ·5	
	***							
9. 28	37. 50							
10. 30	37. 5							
11. 36	42. 0							
12. 43	36. 0							
14. 30	39. 0							
19. 30	35. 30							
21. 8	43. 20							
23. 59	48. 0							
Aug.18		Aug.18		Aug.18				
2. 0	22. 50. 30	1. 0	·0990	0. 30	·00632	1	61 ·0	
10. 0	34. 0	6. 12:	·1017	4. 30	·00372	3	65 ·0	
23. 40	46. 30	9. 18	·0990	8. 20	·00400	9	62 ·5	
		9. 40	·1014	8. 30	·00468	23	57 ·0	
		10. 30:	·0999	16. 10	·00720			
		12. 7	·1033	23. 30	·00655			
		13. 33	·1001					
		16. 35	·1009					
			(†)					
		23. 30	·0979					
Aug.19		Aug.19		Aug.19				
0. 0	22. 48. 40	0. 30	·0982	0. 0	·00648	9	66 ·0	
2. 2	49. 0	2. 7	·1003	3. 30	·00375	21	62 ·0	
2. 14	48. 0	2. 33	·0934	20. 0	·00842			
2. 38	46. 30	3. 13	·1000	23. 55	·00808			
12. 0	38. 30	23. 55	·0965					
12. 25	38. 0							
12. 36	37. 30							
22. 30	41. 0							
Aug.20		Aug.20		Aug.20				
1. 40	22. 48. 20*	1. 8	·0966	1. 0	·00768	1	65 ·0	

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Aug.20	° ′ ″	h m		Aug.20			°	°
h m				h m				
3. 40	22. 48. 49*	10. 3:	·0997	5. 25	·00468	3	68 ·0	
9. 40	30. 56*	23. 55	·0972	8. 30	·00568	9	70 ·0	
21. 40	37. 51*			10. 30:	·00520	21	64 ·0	
				19. 0	·00910			
				23. 55	·00865			
Aug.21		Aug.21		Aug.21				
1. 40	22. 48. 8*	1. 8	·0968	1. 0	·00868	1	65 ·0	
3. 40	46. 49*	2. 57	·1000	6. 47	·00500	3	70 ·0	
		6. 8	·0991	8. 10	·00630	9	68 ·0	
		7. 13	·1005	10. 7	·00590	21	67 ·0	
		7. 50	·0978	23. 0	·00930			
		8. 33	·0995					
			(†)					
		12. 40	·0986					
		16. 50	·1006					
		19. 30	·0982					
			(†)					
		21. 40	·0963*					
		23. 55	(†)					
Aug.22		Aug.22		Aug.22				
5. 0	22. 31. 0	1. 40	·0965*	1. 0	·00915	1	69 ·0	
8. 12	23. 0	3. 40	·0973*	9. 55	·00535	3	70 ·0	
10. 30	32. 20	9. 40	·0970*	10. 5	·00632	9	71 ·0	
12. 20	30. 0	21. 40	·0950*	15. 50	·00920	21	65 ·0	
12. 40	35. 0			18. 50	·00930			
13. 15	30. 40			23. 55	·00860			
15. 0	28. 50							
15. 35	36. 0							
17. 30	31. 0							
19. 26	30. 0							
20. 12	22. 45							
21. 0	29. 50							
23. 43	36. 53							
Aug.23		Aug.23		Aug.23				
0. 0	22. 37. 10	1. 40	·0970*	1. 15	·00812	1	67 ·0	
1. 40	39. 30	3. 40	·0983*	9. 30:	·00512	3	69 ·0	
6. 50	29. 20	9. 40	·0998*	21. 0	·00930	9	68 ·0	
11. 45	30. 30	21. 40	·0977*	23. 55	·00868	21	63 ·0	
12. 10	29. 0							
12. 25	30. 0							
12. 35	29. 25							
13. 0	32. 0							
13. 30	31. 30							
13. 50	29. 20							
14. 16	30. 15							
19. 30	27. 0							
22. 55	35. 30							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Aug. 20 and 21. The photographic lamp of the Declination Magnet was under alteration, to be adapted to the use of gas.

Aug. 22 and 23. The photographic lamp of the Horizontal Force Magnet was under alteration, to be adapted to the use of gas.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Aug. 24	° ′ ″	Aug. 24		Aug. 24			°	°
h m		h m		h m				
0. 0	(†)	1. 10	·0981	1. 30	·00637	1	67·0	
1. 40	22. 39. 33	15. 15	·1000	3. 50	·00437	3	70·0	
	(†)	22. 52	·0970	16·55	·00900	9	68·0	
3. 40	36. 21*			23. 55	·00840	21	63·0	
	(†)							
9. 40	29. 59*							
	(†)							
21. 40	32. 43*							
23. 55	(†)							
Aug. 25		Aug. 25		Aug. 25				
1. 30	22. 39. 30	1. 0	·0980	1. 15	·00718	1	69·0	
6. 30	27. 55	17. 50	·0989	2. 55	·00505	3	70·0	
12. 55	31. 5	22. 20	·0977	6. 20	·00548	9	72·0	
13. 10	32. 0			8. 30	·00655	22	66·0	
13. 30	30. 57			10. 0	·00640			
20. 30	27. 0			17. 18	·00997			
22. 15	31. 10			22. 20	·00942			
22. 25	32. 45							
Aug. 26		Aug. 26		Aug. 26				
1. 30	22. 38. 5	0. 0	·0978	0. 0	·00920	9	72·0	
7. 0	30. 45	3. 40:	·0996	4. 20	·00528	21	66·0	
7. 25	29. 0	23. 55	·0994	7. 0	·00535			
7. 45	30. 25			8. 0	·00630			
10. 0	27. 20			17. 42	·01022			
10. 35	29. 0			23. 30	·00895			
23. 59	36. 10							
Aug. 27		Aug. 27		Aug. 27				
0. 20	22. 37. 20	0. 28	·0992	0. 30	·00900	1	66·0	
11. 40	30. 0	0. 40	·1006	3. 22	·00920	3	67·0	
12. 12	25. 30	0. 55	·0985	6. 30	·00850	9	63·5	
12. 40	28. 30	2. 24	·1013	11. 35	·00930	21	62·0	
13. 10	25. 30	2. 50	·0992	20. 20	·00760			
14. 50	31. 0	3. 20	·1028	23. 30	·00780			
17. 25	24. 55	3. 53	·0993					
18. 35	28. 30	5. 10	·1014					
19. 45	25. 0	6. 55	·0998					
23. 30	38. 35	7. 27	·1024					
		8. 7	·1007					
		12. 30	·1025					
		23. 0	·0983					
Aug. 28		Aug. 28		Aug. 28				
0. 0	22. 38. 45	0. 7	·0981	0. 0	·00798	1	64·5	
9. 0	30. 45	0. 50	·1001	4. 50	·00388	3	70·0	
9. 29	31. 30	1. 30	·0981	8. 20	·00470	9	70·5	
10. 10	23. 50	3. 7	·1011	10. 35	·00398	21	66·0	
10. 45	29. 50	4. 2	·0987	20. 0	·00760			
10. 55	36. 0	10. 15	·1010	23. 15	·00682			
11. 10	32. 10	10. 42	·0995					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Aug. 28	° ′ ″	Aug. 28		Aug. 29			°	°
h m		h m		h m				
11. 55	22. 30. 0	11. 55	·1020					
12. 17	27. 25	12. 12	·0993					
12. 40	29. 20	23. 25	·0978					
13. 30	26. 30							
15. 10	28. 55							
15. 30	28. 15							
16. 10	30. 30							
17. 10	28. 0							
23. 35	36. 0							
Aug. 29		Aug. 29		Aug. 29				
0. 40	22. 37. 20	0. 35	·0982	0. 0	·00680	1	68·0	
7. 40	32. 35	8. 50	·1007	5. 30	·00442	3	70·0	
8. 45	27. 30	23. 35	·0987	8. 30	·00513	9	72·5	
9. 40	31. 30			10. 45	·00465	21	70·0	
11. 55	31. 20			21. 50	·00907			
12. 15	34. 0			23. 15	·00810			
12. 40	32. 0							
17. 30	30. 15							
20. 35	27. 55							
21. 0	29. 5							
23. 55	36. 50							
Aug. 30		Aug. 30		Aug. 30				
1. 0	22. 38. 50	0. 40	·0986	1. 0	·00730	1	73·0	
12. 0	32. 10	9. 35:	·1003	10. 0:	·00498	3	74·0	
12. 25	34. 0	23. 30	·0980	23. 45:	·00862	9	72·0	
13. 20	31. 0					21	68·0	
22. 0	31. 10							
Aug. 31		Aug. 31		Aug. 31				
0. 45	22. 36. 55	1. 5	·0989	1. 0	·00840	1	70·0	
20. 10	26. 15	16. 30:	·1004	10. 20	·00552	3	70·0	
23. 40	37. 20	23. 1	·0986	17. 27	·00980	9	71·0	
				17. 35	·00920	21	65·0	
				18. 30	·00962			
				23. 55	·00828			
Sep. 1		Sep. 1		Sep. 1				
0. 0	22. 41. 30	1. 15:	·0990	0. 30	·00795	1	67·0	
6. 50	31. 0	11. 55	·1004	7. 10	·00425	3	70·0	
11. 40	31. 0	12. 23	·1015	8. 30	·00478	9	71·0	
12. 0	27. 20	13. 30	·1000	11. 40	·00440	22	70·0	
13. 40	29. 0	22. 52	·0978	21. 20	·00760			
14. 10	34. 50			23. 15	·00700			
14. 40	28. 55							
19. 42	27. 0							
23. 23	39. 40							
Sep. 2		Sep. 2		Sep. 2				
0. 0	(†)	2. 0	·0987	0. 0	·00680	9	75·0	
9. 40	22. 27. 47*	14. 15	·1000	2. 45	·00512	21	69·0	
	(†)							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 2	° ′ ″	Sep. 2		Sep. 2			°	°
h m		h m		h m				
21. 40	22. 35. 36*	22. 40	·0966	5. 0:	·00560			
23. 55	(†)			9. 50	·00478			
				18. 50	·00992			
				22. 45	·00960			
Sep. 3		Sep. 3		Sep. 3				
0. 30	22. 40. 0	0. 40	·0975	0. 30	·00930	1	70 ·0	
7. 0	28. 0	11. 55	·1000	10. 0:	·00440	3	73 ·0	
11. 50	32. 35	12. 42:	·1011	17. 40	·00905	9	72 ·0	
13. 45	23. 35	14. 8	·0983	22. 18	·00915	21	65 ·0	
14. 35	27. 0	15. 37	·1007	23. 55	·00778			
15. 50	19. 25	17. 22	·0983					
16. 40	30. 10	18. 10	·0996					
17. 0	28. 0	20. 38	·0956					
17. 35	37. 0	23. 30	·0973					
19. 25	26. 0							
23. 50	42. 0							
Sep. 4		Sep. 4		Sep. 4				
0. 38	22. 43. 0	1. 0	·0961	1. 0	·00710	1	70 ·0	
12. 0	29. 10	10. 0	·1000	4. 8	·00452	3	73 ·0	
21. 40	24. 30	23. 30	·0964	9. 45	·00427	9	71 ·5	
23. 55	38. 0			17. 37	·00990	21	65 ·0	
				23. 45	·00750			
Sep. 5		Sep. 5		Sep. 5				
1. 40	22. 39. 15	1. 38	·0983	1. 0	·00645	1	70 ·0	
9. 30	29. 55	5. 42	·0976	2. 24	·00450	3	75 ·0	
11. 55	28. 0	17. 24:	·0999	4. 45	·00485	9	70 ·0	
20. 58	24. 25	23. 30	·0975	6. 50	·00430	21	64 ·0	
23. 55	31. 0			13. 18	·00972			
				23. 55	·00700			
Sep. 6		Sep. 6		Sep. 6				
8. 10	22. 29. 0	2. 22	·0977	1. 30	·00500	1	69 ·0	
9. 0	30. 20	17. 20	·1008	2. 22	·00390	3	75 ·0	
10. 35	28. 0	21. 0	·0995	4. 0:	·00425	9	69 ·0	
10. 45	24. 25	22. 50	·1007	6 26:	·00392	21	57 ·0	
11. 0	26. 0	23. 55	·0991	13 20	·00933			
19. 55	24. 30			23. 55	·00812			
23. 55	31. 50							
Sep. 7		Sep. 7		Sep. 7				
0. 0	(†)	1. 30	·0996	1. 0	·00780	1	65 ·0	
1. 40	22. 34. 21*	6. 36	·0994	5. 6	·00292	3	69 ·0	
	(†)	11. 40	·1016	8. 0	·00330	9	65 ·0	
3. 40	36. 53*	23. 45	·0973	9. 50	·00300	21	58 ·8	
	(†)			16. 40	·00822			
9. 40	29. 1*			23. 55	·00775			
	(†)							
21. 45	27. 10*							
23. 55	(†)							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 8	° ′ ″	Sep. 8		Sep. 8			°	°
h m		h m		h m				
2. 25	22. 39. 0	1. 0	·0975	1. 0	·00710	1	63 ·0	
4. 0	36. 0	15. 25:	·1012	4. 55	·00285	3	69 ·0	
5. 5	29. 0	23. 0	·0987	8. 0	·00350	9	66 ·0	
5. 30	30. 0			9. 44	·00290	22	60 ·0	
9. 15	27. 45			17. 40	·00825			
9. 35	23. 30			23. 15	·00780			
9. 48	26. 25							
10. 30	28. 10							
11. 40	23. 55							
13. 20	29. 10							
14. 30	29. 0							
15. 0	38. 45							
16. 0	28. 55							
20. 10	24. 30							
23. 20	30. 0							
Sep. 9		Sep. 9		Sep. 9				
0. 0	22. 32. 0	0. 15	·0990	0. 0	·00770	11	65 ·0	
1. 40	36. 20	11. 10	·1004	5. 42	·00270	21	63 ·0	
9. 11	29. 10	11. 50	·1026	7. 40	·00325			
12. 10	10. 0	12. 26	·0997	10. 25	·00280			
13. 0	24. 0	23. 14	·0976	22. 15	·00705			
15. 10	30. 30			23. 14	·00702			
21. 8	23. 45							
22. 30	28. 50							
22. 52	28. 25							
Sep. 10		Sep. 10		Sep. 10				
1. 33	22. 35. 0	2. 10	·1000	1. 30	·00680	1	65 ·0	
2. 53	43. 0	3. 37	·0980	7. 50	·00360	3	68 ·0	
11. 10	23. 0	14. 0	·1025	9. 0	·00452	9	67 ·0	
13. 0	29. 50	23. 55	·0992	12. 0:	·00362	21	60 ·0	
14. 10	28. 50			20. 8	·00928			
14. 50	23. 8			23. 28	·00890			
15. 52	23. 40							
16. 45	27. 10							
20. 43	23. 5							
23. 55	27. 30							
Sep. 11		Sep. 11		Sep. 11				
0. 35	22. 32. 0	1. 5	·0976	1. 12	·00920	1	62 ·0	
7. 0	23. 40	14. 37:	·1021	6. 50	·00490	3	65 ·0	
10. 40	25. 35	23. 10	·0992	13. 30	·00892	9	62 ·0	
11. 12	20. 30			23. 55	·00675	21	55 ·0	
13. 40	27. 55							
23. 12	24. 45							
23. 28	31. 0							
23. 32	26. 25							
23. 40	30. 5							
Sep. 12		Sep. 12		Sep. 12				
0. 45	22. 31. 20	0. 40	·1000	1. 0	·00620	1	60 ·0	

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Thermometers. Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 12		Sep. 12		Sep. 12				
h m s	° ′ ″	h m		h m			°	°
2. 12	22. 38. 0	1. 45	·1027	10. 0	·00320	3	65 ·0	
3. 0	34. 40	2. 25	·1011	23. 55	(†)	9	58 ·0	
3. 18	40. 50	14. 30	·1017			21	56 ·0	
5. 30	33. 30	14. 37	·1037					
6. 15	24 55	15. 54	·1007					
6. 50	29. 0	16. 25	·1036					
7. 3	26. 0	17. 40	·0976					
8. 20	29. 25	17. 56	·1006					
9. 10	26. 35	18. 37	·0980					
9. 25	29. 30	18. 50	·1004					
15. 10	18. 30	23. 0	·0968					
15. 36	23. 30							
17. 10	6. 15							
17. 40	22. 10. 45							
18. 40	21. 55. 0							
	(†)							
23. 55	22. 17. 15							
Sep. 13		Sep. 13		Sep. 13				
1. 20	22. 25. 0	1. 10	·0983	1. 0	·00385	1	60 ·0	
1. 40	25. 50	2. 45	·1000	3. 14	·00185	3	63 ·0	
1. 45	30. 45	3. 14	·0983	5. 15	·00260	21	57 ·0	
2. 0	26. 0		***	8. 40	·00240			
2. 10	30. 55	4. 37	·0989	21. 30	·00622			
2. 35	22. 0	5. 10	·1015	23. 45	·00528			
2. 55	24. 20	5. 40	·0985					
4. 38	27. 55	13. 30	·0994					
4. 58	23. 0	13. 54	·1015					
8. 0	26. 30	17. 0	·0980					
9. 40	27. 40	17. 57	·0998					
10. 24	21. 50	18. 40	·0976					
14. 10	29. 20	20. 30	·0984					
20. 15	16. 50	22. 10	·0968					
23. 50	33. 0	23. 40	·0980					
Sep. 14		Sep. 14		Sep. 14				
0. 0	22. 34. 0	0. 0	·0984	0. 0	·00508	1	60 ·0	
1. 26	36. 50	11. 10	·0998	3. 53	·00170	3	63 ·0	
7. 25	22. 0	22. 0	·0971	7. 40	·00247	9	63 ·0	
11. 10	29. 0			10. 0	·00197	21	59 ·0	
20. 45	14. 10			23. 0	·00715			
23. 35	32. 30							
Sep. 15		Sep. 15		Sep. 15				
0. 30	22. 31. 55	0. 30	·0983	0. 30	·00695	1	65 ·0	
20. 30	26. 0	16. 25;	·1003	9. 40;	·00280	3	65 ·0	
21. 0	14. 5	23. 5	·0973	18. 37	·00792	9	61 ·0	
21. 40	14. 30			23. 15	·00650	22	59 ·0	
23. 25	34. 0							
Sep. 16		Sep. 16		Sep. 16				
0. 10	22. 37. 15	0. 0	·0977	0. 0	·00625	11	65 ·0	
7. 30	22. 0	1. 40	·0974	3. 22	·00292	21	61 ·0	
8. 0	18. 0	1. 45	·1003	7. 45	·00445			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Thermometers. Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 16		Sep. 16		Sep. 16				
h m	° ′ ′	h m		h m			°	°
8. 15	22. 21. 50	4. 3	·0968	14. 45	·00348			
14. 0	26. 0	7. 2	·0991	23. 15	·00845			
14. 33	31. 0	8. 21	·0971					
15. 5	23. 0	16. 52	·1005					
17. 0	19. 30		***					
19. 8	31. 50	22. 55	·0963					
21. 0	23. 50							
23. 55	29. 20							
Sep. 17		Sep. 17		Sep. 17				
1. 0	22. 31. 0	1. 0	·0980	1. 0	·00822	1	63 ·0	
9. 0;	14. 15	4. 5	·0971	4. 10	·00505	3	65 ·0	
9. 33	18. 30	4. 47	·0999	11. 0	·00820	9	59 ·0	
9. 45	6. 40	5. 42	·0980	23. 45	·00635	21	50 ·0	
10. 20	21. 0	6. 20	·0995					
13. 40	28. 30	7. 13	·0975					
15. 40	24. 0	8. 3	·0998					
18. 20	27. 30	10. 5	·1018					
21. 0;	23. 55	10. 30	·0993					
23. 55	31. 25	17. 30;	·1023					
		23. 7	·0971					
Sep. 18		Sep. 18		Sep. 18				
0. 10	22. 32. 45	0. 35	·0983	0. 30	·00702	1	55 ·0	
4. 40	27. 0	4. 48	·0994	4. 52	·00285	3	60 ·0	
5. 0	19. 30	5. 7	·1029	7. 40	·00330	9	58 ·0	
5. 45	27. 15	5. 55	·0993	10. 30	·00210	21	55 ·0	
8. 5	22. 0	8. 20	·0989	23. 30	·00800			
8. 27	11. 15	8. 38	·1007					
8. 45	17. 30	9. 10	·0990					
13. 10	21. 5	12. 58	·1007					
13. 38	30. 35	15. 37	·0994					
14. 20	21. 10	16. 15	·1023					
14. 35	22. 0	21. 45	·0952					
14. 55	29. 50	23. 55	·0971					
16. 0	31. 50							
16. 40	24. 0							
19. 25	31. 45							
20. 25	26. 45							
22. 42	37. 55							
23. 55	34. 0							
Sep. 19		Sep. 19		Sep. 19				
0. 5	22. 34. 30	0. 5	·0978	0. 30	·00755	1	60 ·0	
10. 0	15. 30	9. 23	·0981	3. 22	·00380	3	65 ·0	
10. 30	22. 10	9. 40	·1010	7. 30	·00440	9	65 ·0	
11. 8	15. 55	10. 30	·0990	10. 25	·00375	21	58 ·0	
15. 30	28. 55	11. 10	·1015	19. 0	·00882			
16. 25	26. 0	11. 47	·0991	23. 30	·00870			
17. 15	35. 0	17. 40	·1013					
21. 0	22. 55	23. 5	·0979					
23. 55	29. 20							

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 20		Sep. 20		Sep. 20				
h m	° ′ ″	h m		h m			°	°
0. 30	22. 33. 0	0. 38	·0993	0. 30	·00857	1	60 ·0	
7. 55	19. 25	18. 22:	·1019	9. 34	·00418	3	64 ·0	
16. 5	26. 25	21. 3	·0985	18. 25	·00887	9	60 ·0	
16. 40:	32. 25	22. 0	·1000	20. 50	·00847	21	57 ·5	
17. 35	26. 45	23. 22	·0989	23. 45	·00875			
21. 0	30. 20							
21. 55	26. 50							
23. 55	33. 0							
Sep. 21		Sep. 21		Sep. 21				
0. 30	22. 34. 20	0. 30	·0989	0. 30	·00795	1	60 ·0	
2. 20	38. 50	2. 5	·0999	5. 55	·00330	3	65 ·0	
6. 40	27. 0	2. 24	·1018	7. 15	·00420	9	60 ·0	
7. 5	18. 55	4. 12	·1002	9. 0	·00350	21	60 ·0	
7. 35	26. 0	4. 22	·0972	21. 10	·00870			
10. 30	27. 0	4. 55	·1011	23. 30	·00800			
11. 25	22. 5	5. 33	·1001					
18. 25	27. 25	7. 10	·1023					
20. 45	20. 0	7. 47	·1004					
23. 55	34. 25	23. 25:	·0989					
Sep. 22		Sep. 22		Sep. 22				
0. 38	22. 34. 20	0. 45	·0995	1. 0	·00702	1	65 ·0	
10. 45	24. 0	9. 11	·1013	4. 0	·00380	3	65 ·0	
11. 10:	26. 25	23. 0	·0990	6. 25	·00355	9	63 ·0	
18. 30	26. 35			7. 30	·00407	22	60 ·0	
21. 30	20. 10			19. 45	·00995			
22. 55	23. 55			23. 0	·00867			
Sep. 23		Sep. 23		Sep. 23				
0. 0	22. 32. 5	0. 20	·0988	0. 0	·00845	8	62 ·5	
22. 0	7 . 25	1. 47	·0993	12. 0:	·00538	21	60 ·5	
23. 55	34. 30	2. 3	·1014	22. 30	·00805			
		2. 28	·1001	23. 55	·00712			
		4. 10	·1024					
		4. 35	·1013					
		4. 50	·1027					
		5. 28	·1001					
		7. 0	·1014					
		23. 30	·0980					
Sep. 24		Sep. 24		Sep. 24				
0. 50	22. 37. 30	1. 13	·0979	1. 0	·00635	1	63 ·0	
6. 5	28. 30	4 43	·0998	3. 50	·00412	3	65 ·0	
6. 45	32. 0	5. 40	·0982	7. 15	·00505	9	61 ·5	
7. 5	4. 20	6. 0	·1005	9. 0	·00442	21	54 ·0	
8. 0	28. 50	7. 0	·0983	11. 10	·00615			
11. 8	25. 25	7. 12	·1023	11. 47	·00572			
11. 45	43. 0	7. 38	·0988	15. 7	·00913			
12. 25	20. 30	10. 40	·0996	17. 32	·00812			
20. 22	15. 0	11. 20	·1056	19. 45	·00870			
20. 29	23. 45	12. 7	·0963	22. 55	·00730			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 24		Sep. 24						
h m	° ′ ″	h m		h m			°	°
21. 45	22. 12. 0	12. 35	·1002					
22. 25	30. 30	15. 8	·0985					
23. 50	38. 0	17. 36	·1017					
		18. 52	·0990					
		23. 53	·0981					
Sep. 25		Sep. 25		Sep. 25				
0. 30	22. 36. 50	1. 0	·0983	0. 30	·00690	1	60 ·0	
5. 25	25. 30	3. 25	·0980	3. 0	·00390	3	65 ·0	
6. 30	29. 0	4. 10	·0991	4. 30	·00465	9	61 ·0	
	***	5. 8	·0967	8. 45	·00385	21	56 ·0	
13. 38	27. 15	5. 40	·0991	14. 42	·00930			
16. 20	27. 35	7. 40	·0990	17. 30	·00882			
19. 12	17. 10	8. 5	·1011	19. 37	·00920			
22. 5	3. 40	8. 50	·0990	22. 55	·00800			
22. 50	3. 30	19. 0:	·1012					
		21. 38:	·0997					
		23. 0	·1000					
Sep. 26		Sep. 26		Sep. 26				
0. 0	22. 20. 0	0. 13	·0991	0. 0	·00730	9	63 ·5	
0. 40	30. 0	18. 10:	·1009	2. 55	·00366	21	63 ·0	
	(†)	23. 8	·0974	4. 33	·00425			
5. 23	30. 30			6. 30	·00398			
19. 52	14. 0			7. 40	·00475			
21. 42	14. 45			11. 0	·00428			
21. 59	16. 25			22. 15	·00805			
23. 0	33. 15			23. 55	·00767			
Sep. 27		Sep. 27		Sep. 27				
0. 30	22. 32. 50	1. 10	·0981	1. 30	·00615	1	65 ·0	
8. 40	27. 30	5. 37	·0993	3. 5	·00427	3	69 ·0	
9. 20	8. 0	6. 9	·1022	6. 5	·00410	9	65 ·0	
9. 50	20. 0	6. 52	·1001	9. 38	·00500	21	62 ·0	
11. 38	24. 30	9. 7	·0979	12. 15	·00450			
12. 0	32. 15	11. 12	·1001	21. 30	·01035			
13. 0	15. 55	11. 35	·0992	23. 55	·00995			
14. 20	28. 0	12. 6	·1019					
19. 40	13. 50	12. 47	·0982					
21. 0	18. 25	13. 14	·0999					
21. 25	24. 30	23. 52:	·0966					
21. 50	13. 50							
23. 0	31. 25							
Sep. 28		Sep. 28		Sep. 28				
1. 0	22. 33. 30	1. 0	·0974	1. 30	·00895	1	65 ·0	
	***	2. 45	·0985	5. 0:	·00550	3	69 ·0	
9. 50	15. 30	3. 5	·0965	7. 0:	·00690	9	67 ·0	
11. 5	26. 0	10. 5	·0986	11. 30	·00600	21	63 ·5	
12. 30	21. 40	10. 50	·0983	23. 55	·00930			
17. 50	31. 0	11. 27	·1019					
21. 0	21. 40	12. 15	·0982					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 28		Sep. 28						
h m	° ′ ″	h m		h m			°	°
21. 38	22. 28. 50	13. 50:	·1000					
22. 10	26. 0	14. 45	·0985					
	***	18. 0:	·1007					
23. 45	35. 0	23. 25	·0968					
Sep. 29		Sep. 29		Sep. 29				
0. 0	22. 34. 10	0. 7	·0972	0. 30	·00932	1	65 ·0	
8. 25	26. 0	12. 30	·0989	8. 45	·00595	3	67 ·0	
13. 40	32. 55	13. 0	·1019	19. 45	·00905	9	66 ·0	
15. 20	22. 0	13. 35	·1007	20. 40	·00878	22	65 ·0	
16. 5	34. 20	13. 55	·1021	23. 30	·00985			
16. 33	26. 30	15. 55	·0999					
17. 10	31. 0	16. 20	·1018					
23. 30:	34. 30	17. 5	·0994					
		23. 15:	·0971					
Sep. 30		Sep. 30		Sep. 30				
0. 0	22. 37. 0	0. 30	·0974	0. 0	·01000	8	63 ·0	
18. 0:	24. 45	5. 25	·0999	7. 5	·01180	21	63 ·0	
21. 10	23. 0	6. 47	·0924	13. 30	·01062			
23. 41	30. 0	11. 38	·1012	19. 30	·01200			
		21. 55	·0983	22. 30	·01100			
			(†)					
		23. 41	·0982					
Oct. 1		Oct. 1		Oct. 1				
2. 0	22. 34. 50	1. 5	·0978	2. 30	·01525	1	61 ·0	
10. 40	21. 10	11. 43	·1006	5. 0	·01635	3	65 ·0	
11. 40	22. 50	23. 28	·0989	12. 12	·01452	9	60 ·0	
12. 5	25. 50			19. 50:	·01480	21	58 ·0	59 ·5
12. 30	20. 0			23. 55	·01428			
22. 0	10. 5							
22. 55	12. 35							
23. 55	13. 0							
Oct. 2		Oct. 2		Oct. 2				
1. 20	22. 27. 5	0. 30	·0996	0. 30	·01300	1	58 ·5	60 ·0
5. 10	23. 0	5. 20	·0992	5. 30	·01190	3	60 ·0	61 ·0
5. 35	16. 25	5. 50	·1014	5. 50	·01215	9	58 ·5	60 ·0
5. 55	19. 50	6. 55	·0990	8. 30:	·01172	21	54 ·0	55 ·0
7. 45	21. 30	8. 5	·1003	20. 0	·01350			
11. 35	18. 55	8. 50	·0996	23. 30	·01308			
12. 22	20. 20	11. 10	·1005					
14. 5	13. 45	12. 0	·1030					
21. 53	6. 15	12. 30	·1007					
22. 2	2. 0	18. 15	·1017					
22. 50	2. 25	23. 0	·0989					
Oct. 3		Oct. 3		Oct. 3				
	(†)	1. 0	·0996	0. 30	·01135	1	55 ·0	56 ·5
		9. 28	·1004	2. 35	·01038	3	59 ·0	60 ·0
		10. 12	·1022	7. 0:	·01235	9	60 ·0	62 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	Oct. 3		Oct. 3				
		h m		h m			°	°
		11. 10	·1002	12. 0	·01180	21	59 ·0	62 ·0
		18. 10	·1008	23. 30	·01435			
		23. 0	·0984					
Oct. 4		Oct. 4		Oct. 4				
3. 10	22. 30. 0	1. 0	·0990	1. 0	·01430	1	60 ·0	62 ·0
19. 42	15. 30	18. 0:	·1019	4. 40:	·01182	3	61 ·0	63 ·5
21. 20	26. 10	23. 7:	·0990	12. 20	·01452	9	59 ·0	60 ·5
21. 50	15. 0			21. 15	·01248	21	50 ·5	54 ·5
22. 30	33. 0			23. 40	·01300			
23. 55	36. 10							
Oct. 5		Oct. 5		Oct. 5				
0. 35	22. 35. 30	0. 37	·0993	0. 30	·01270	1	54 ·5	57 ·0
	***	7. 10:	·1026	10. 0:	·01000	3	56. 5	58 ·5
3. 55	36. 0	23. 50	·0998	20. 40	·01340	9	57 ·5	61 ·5
	(†)			23. 0	·01300	21	53 ·5	57 ·5
10. 45	27. 0							
11. 35	25. 0							
	***							
17. 0	31. 0							
	***							
23. 55	34. 10							
Oct. 6		Oct. 6		Oct. 6				
1. 25	22. 38. 30	0. 50	·1001	1. 0	·01338	1	54 ·8	56 ·0
7. 8	28. 0	12. 35	·1030	12. 40	·00960	3	57 ·0	59 ·0
12. 30	28. 55	22. 53	·0993	19. 55	·01116	9	58 ·0	60 ·0
13. 25	22. 0			23. 25	·01037	22	55 ·0	56 ·5
17. 0	32. 0							
20. 10	25. 0							
23. 25	31. 25							
Oct. 7		Oct. 7		Oct. 7				
0. 20	22. 35. 0	0. 36	·0989	0. 0	·01062	10	60 ·0	62 ·0
2. 12	40. 50	7. 18	·1013	1. 38	·01005	21	56 ·0	57 ·7
11. 31	29. 35	11. 40	·0997	11. 17	·01150			
12. 20	23. 30	15. 45	·1013	16. 10:	·01138			
13. 38	28. 0	22. 15	·0983	23. 0	·01385			
15. 18	29. 20							
16. 10	22. 20							
17. 5	31. 50							
18. 0	26. 0							
21. 0	27. 0							
23. 55	33. 10							
Oct. 8		Oct. 8		Oct. 8				
0. 30	22. 38. 0	1. 6	·0988	0. 45	·01485	1	59 ·0	62 ·5
	***	15. 40:	·1017	2. 30	·01500	3	60 ·0	62 ·5
21. 8	27. 55	23. 40:	·1000	8. 25:	·01283	9	58 ·0	62 ·5
	***			12. 10	·01515	21	49 ·0	52 ·5
23. 40	34. 40			23. 40:	·01306			

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 9		Oct. 9		Oct. 9				
h m	° ′ ″	h m		h m			°	°
0. 30	22. 36. 35	0. 30	·1004	1. 0	·01320	1	51 ·8	54 ·0
8. 5	27. 55	19. 50	·1029	6. 30	·00968	3	53 ·0	55 ·0
21. 15	28. 25	23. 20	·1001	11. 0	·00922	9	54 ·0	56 ·0
23. 55	36. 10			17. 50	·01342	21	46 ·5	52 ·0
				22. 40	·01295			
Oct. 10		Oct. 10		Oct. 10				
0. 45	22. 35. 10	0. 28	·1000	1. 0	·01056	1	50 ·0	54 ·0
5. 8	33. 55	2. 53	·1014	2. 37	·00950	3	56 ·0	58 ·4
6. 0	26. 40	5. 17	·0988	6. 20	·01098	9	55 ·5	57 ·0
6. 50	33. 5	7. 43	·1025	10. 30	·00950	21	50 ·0	51 ·0
9. 15	24. 0	8. 50	·1003	15. 50	·01415			
9. 40	16. 0	9. 15	·1015	23. 50	·01380			
10. 15	27. 55	10. 3	·1003					
10. 33	15. 55	10. 15	·1015					
11. 15	28. 10	10. 25	·1007					
14. 20	26. 55	10. 45	·1037					
15. 40	30. 20	11. 25	·1000					
20. 43	26. 0	13. 0	·1027					
23. 55	36. 55	23. 40	·1011					
Oct. 11		Oct. 11		Oct. 11				
1. 0	22. 40. 5	1. 0	·1016	1. 0	·01305	1	53 ·0	55 ·8
4. 15	34. 45	3. 10	·0994	2. 57	·01008	3	57 ·0	59 ·0
4. 33	29. 30	4. 42	·1013	6. 40:	·01105	9	57 ·0	59 ·3
4. 54	33. 0	5. 10	·0997	10. 50	·01035	21	51 ·5	53 ·5
7. 10	32. 15	6. 55	·1010	18. 50	·01500			
7. 27	29. 15	7. 50	·0995	23. 45	·01481			
7. 45	32. 30	8. 3	·1006					
7. 57	28. 45	8. 14	·0986					
8. 5	32. 30	8. 33	·1003					
8. 27	26. 0	8. 50	·0989					
8. 42	32. 0	11. 0	·0997					
9. 8	26. 15	11. 35:	·1015					
9. 40	29. 30	12. 0	·1000					
11. 7	27. 0	18. 50:	·1011					
23. 50	34. 0	23. 20:	·0992					
Oct. 12		Oct. 12		Oct. 12				
0. 32	22. 35. 55	0. 32	·0995	0. 40	·01472	1	56 ·0	57 ·7
	***	16. 50:	·1018	4. 40	·01065	3	58 ·0	59 ·5
21. 3	28. 0	23. 25:	·1000	7. 0:	·01078	9	55 ·0	57 ·4
23. 52	35. 55			9. 50:	·01030	21	49 ·5	54 ·0
				17. 40	·01500			
				23. 30	·01450			
Oct. 13		Oct. 13		Oct. 13				
0. 40	22. 38. 10	0. 40	·1008	1. 0	·01475	1	54 ·0	56 ·6
14. 0	30. 5	13. 7	·1018	10. 2:	·00955	3	55 ·0	57 ·0
15. 0:	18. 0	14. 20	·1037	21. 25	·01425	9	53 ·0	57 ·5
16. 35	30. 20	15. 32	·1004	23. 30	·01393	22	48 ·0	51 ·0
18. 30	33. 0	19. 5	·1021					

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Oct. 13		Oct. 13						
h m	° ′ ″	h m		h m			°	°
21. 0	22. 27. 0	23. 10	·0991					
23. 8	35. 35							
Oct. 14		Oct. 14		Oct. 14				
0. 0	22. 36. 0	0. 0	·1000	0. 0	·01212	9	50 ·5	55 ·0
5. 17	39. 0	1. 23	·1020	3. 0	·01272	21	48 ·0	53 ·0
5. 55	23. 40	2. 50	·0999	4. 40	·01220			
6. 43	22. 31. 0	3. 15	·1006	7. 0	·01342			
7. 20	21. 55. 40	3. 38	·0990	10. 30	·01190			
8. 35	22. 27. 10	4. 32	·1018	16. 15	·01472			
9. 0	20. 0	5. 54	·0990	18. 50	·01340			
9. 20	24. 25	6. 25	·1003	23. 0	·01445			
9. 53	22. 45	6. 50	·0992					
12. 8	34. 0	7. 30	·1065					
14. 30	30. 50	8. 50	·0983					
15. 33	38. 30	10. 3	·1022					
16. 22	27. 15	16. 30	·0998					
16. 45	32. 30	17. 38	·1020					
17. 22	37. 45	20. 57	·0978					
18. 45	36. 15		***					
19. 45	29. 15	23. 15	·0980					
20. 8	35. 15							
21. 45	28. 30							
23. 40	39. 30							
Oct. 15		Oct. 15		Oct. 15				
1. 0	22. 37. 5	1. 0	·0992	1. 0	·01458	1	49 ·0	54 ·5
9. 0	27. 40	10. 10	·1007	5. 33	·01028	3	56 ·0	57 ·0
10. 40	35. 10	10. 32	·1032	10. 50	·00940	9	55 ·0	57 ·5
12. 30	27. 30	11. 6	·1007	18. 33	·01458	21	46 ·0	53 ·0
15. 0	33. 5	23. 30:	·0998	23. 0	·01382			
22. 0	29. 0							
23. 55	36. 55							
Oct. 16		Oct. 16		Oct. 16				
0. 30	22. 36. 5	0. 30	·0997	0. 30	·01423	1	51 ·0	55 ·5
5. 0	32. 5	2. 50	·1003	4. 10	·01070	3	58 ·0	57 ·0
5. 45	17. 15	3. 40	·0991	6. 0	·01140	9	57 ·0	60 ·0
6. 40:	30. 50	4. 30	·1006	11. 0	·01035	21	54 ·0	57 ·5
8. 30:	27. 5	5. 32	·0937	23. 30	·01255			
23. 30	36. 0	5. 58	·1012					
		18. 38:	·1013					
		23. 0:	·0991					
Oct. 17		Oct. 17		Oct. 17				
0. 30	22. 37. 0	1. 6	·0992	0. 30	·01205	1	59 ·5	63 ·0
8. 10	26. 55	9. 0	·0994	1. 25	·01118	3	63 ·0	65 ·5
9. 0	30. 0	9. 42	·1034	6. 40	·01235	9	63 ·0	67 ·0
10. 53	23. 30	11. 21	·0988	10. 5	·01178	21	59 ·5	63 ·0
13. 0	28. 30	18. 7:	·1008	23. 0	·01645			
13. 40	33. 0	22. 50	·0972					
14. 18	29. 20	23. 55	·0984					

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 17								
h m	° ′ ″	h m		h m			°	°
19. 0	22. 28. 30							
20. 10	26. 50							
23. 55	33. 30							
Oct. 18		Oct. 18		Oct. 18				
1. 0	22. 38. 35	1. 10	·0985	0. 30	·01630	1	60 ·0	66 ·0
7. 35	28. 0	2. 48	·0975	4. 0	·01290	3	67 0	69 ·0
8. 43	14. 10	5. 55	·0993	6. 0	·01280	9	65 ·0	68 ·0
9. 20	24. 0	7. 50	·0977	6. 15	·01352	21	58 ·0	61 ·0
11. 30	24. 20	8. 42	·1009	9. 45	·01310			
11. 47	33. 0	9. 25	·0989	14. 10	·01712			
12. 40	22. 10	9. 37	·1003	23. 30	·01660			
18. 0	33. 50	11. 10	·0984					
21. 0	25. 0	20. 10	·1009					
23. 55	34. 0	23. 50:	·0980					
Oct. 19		Oct. 19		Oct. 19				
1. 0	22. 37. 0	1. 0	·0986	1. 0	·01625	1	62 ·0	65 ·0
6. 55	30. 0	6. 28	·1006	4. 18	·01250	3	65 ·0	67 ·7
7. 47	19. 30	8. 20	·0978	7. 12	·01320	9	65 ·5	69 ·2
8. 40	28. 30	12. 20	·0993	10. 30	·01225	21	62 ·5	64 ·0
12. 12	27. 45	12. 45	·1012	19. 45:	·01735			
12. 35	30. 30	14. 13	·0993	23. 55:	·01725			
13. 0	25. 30	18. 20:	·1004					
21. 30	26. 55	23. 55:	·0981					
23. 55	36. 20							
Oct. 20		Oct. 20		Oct. 20				
1. 0	22. 36. 35	1. 10	·0988	1. 0	·01665	1	66 ·0	67 ·0
7. 20	29. 55	3. 45	·0998	5. 30	·01285	3	66 ·0	66 ·0
7. 32	23. 10	4. 53	·0980	9. 18	·01262	9	65 ·0	67 ·7
8. 10	28. 0	6. 30	·1000	17. 42	·01750	23	60 ·0	64 ·0
9. 40	29. 40	6. 55	·0985		(†)			
13. 42	27. 0	7. 55	·1000	20. 54	·01750			
14. 35	30. 20	9. 10	·0988	23. 30	·01690			
15. 50	26. 5	15. 33	·1004					
19. 10	28. 5	23. 30	·0989					
21. 25	27. 0							
23. 30	36. 20							
Oct. 21		Oct. 21		Oct. 21				
0. 0	22. 37. 0	0. 30	·0986	0. 0	·01695	9	59 ·0	63 ·5
1. 30	40. 30	13. 45:	·1019	2. 25	·01720	21	54 ·0	56 ·5
	***	15. 7	·1000		(†)			
13. 0:	26. 30	17. 40:	·1021	9. 48	·01715			
	***	21. 23	·0968	23. 30	·01540			
14. 20:	20. 0	22. 30	·1000					
	***	23. 40	·0985					
15. 38:	30. 0							
	***							
17. 0:	26. 30							
	***							

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Oct. 21								
h m	° ′ ″	h m		h m			°	°
20. 30	22. 31. 0							
21. 42	40. 55							
22. 20	33. 20							
23. 55	39. 0							
Oct. 22		Oct. 22		Oct. 22				
1. 30	22. 46. 0	1. 45	·0981	3. 0	·01240	1	56 ·0	58 ·8
2. 35	42. 0	2. 25	·0993	6. 50	·01312	3	60 ·0	61 ·7
3. 5	53. 10	2. 40	·0981	8. 8	·01180	9	60 ·0	62 ·0
3. 56	28. 20	3. 2	·1011	8. 32	·01253	21	59 ·0	61 ·7
4. 8	31. 50	3. 30	·0975	8. 55	·01205			
4. 20	28. 0	4. 3	·1014	9. 33	·01400			
4. 38	40. 50	4. 18	·0998	10. 35	·01140			
5. 37	45. 10	4. 37	·1010	23. 55	·01210			
7. 0	23. 55	6. 10	·0972					
7. 18	18. 0	6. 50	·0997					
7. 46	29. 10	6. 55	·0971					
8. 0	23. 0	7. 6	·0990					
8. 15	32. 55	7. 12	·0975					
8. 42	26. 50	7. 35	·1015					
9. 0	32. 40	7. 55	·0977					
9. 38	9. 35	9. 3	·0944					
9. 42	37. 35	9. 40	·1017					
10. 0	16. 10	9. 42	·0954					
10. 10	25. 10	10. 2	·0987					
10. 20	15. 30	10. 14	·0954					
10. 30	32. 0	10. 23	·0980					
10. 48	23. 20	10. 36	·0954					
14. 0	33. 0	11. 0	·0977					
20. 6	27. 10	23. 30	·0965					
23. 55	35. 30							
Oct. 23		Oct. 23		Oct. 23				
1. 0	22. 37. 10	1. 25	·0967	1. 0	·01192	1	62 ·0	63 ·5
8. 30	26. 0	9. 0	·0985	2. 18	·01152	3	65 ·0	65 ·8
9. 20	15. 30	9. 31	·1026	7. 15	·01240	9	64 ·0	65 ·0
	***	10. 38	·0982	10. 10	·01145	21	58 ·5	63 ·0
10. 0	28. 0	12. 55	·1001	20. 55	·01492			
	***	17. 17	·0987	23. 0	·01470			
13. 10:	33. 0	18. 52:	·1004					
14. 40:	28. 0	23. 12	·0959					
	***							
18. 52:	36. 0							
21. 5	26. 0							
23. 55	33. 0							
Oct. 24		Oct. 24		Oct. 24				
0. 42	22. 35. 30	0. 45	·0969	0. 45	·01510	1	61 ·0	63 ·4
1. 50	40. 0	1. 50	·0977	4. 40	·01278	3	64 ·0	66 ·0
7. 0	30. 0	2. 40	·0964	10. 0	·01190	9	63 ·0	66 ·0
7. 50	24. 25	3. 10	·0982	16. 15	·01490	21	59 ·5	62 ·5
8. 10	27. 50	10. 30	·0985	23. 30	·01490			

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Oct. 24		Oct. 24						
h m	° ′ ″	h m		h m			°	°
8. 32	22. 24. 40	11. 38	·1011					
9. 38	30. 0	14. 17	·0985					
10. 25	28. 0	17. 25:	·1006					
	***	21. 25	·0970					
11. 30:	33. 40	23. 37	·0976					
	***							
13. 40	25. 0							
	***							
14. 22:	28. 0							
	***							
15. 0	34. 0							
17. 18	29. 0							
23. 55	36. 0							
Oct. 25		Oct. 25		Oct. 25				
1. 0	22. 36. 35	1. 0	·0981	1. 0	·01500	1	61 ·0	62 ·4
3. 0	39. 50	3. 15	·0966	6. 0	·01230	3	64 ·0	65 ·5
3. 40	31. 0	3. 52	·0986	10. 15	·01152	9	63 ·0	67 ·0
4. 0	33. 40	8. 20	·0991	23. 55	·01480	21	61 ·0	64 ·0
6. 40:	29. 50	8. 37	·1007					
7. 30	30. 30	9. 0	·0985					
8. 35	24. 12	9. 58	·1009					
10. 5	31. 0	10. 20	·0990					
	***	16. 36	·1006					
11. 8:	26. 15	23. 35	·0977					
	***							
17. 55	32. 10							
19. 30	33. 0							
20. 30	30. 50							
23. 55	37. 0							
Oct. 26		Oct. 26		Oct. 26				
1. 0	22. 38. 0	1. 33	·0973	1. 0	·01500	1	62 ·0	64 ·8
4. 55	28. 55	4. 20	·0990	8. 15	·01325	3	64 ·0	66 ·0
6. 30	31. 10	4. 50	·0979	12. 20	·01512	9	59 ·5	64 ·0
8. 0	30. 0	5. 15	·0995	23. 55	·01455	21	56 ·0	61 ·0
8. 20	25. 50	8. 35	·1011					
	***	9. 26	·1000					
9. 10	30. 25	23. 55	·0974					
	***							
9. 39	22. 30							
	***							
13. 40	32. 0							
	***							
17. 50	34. 50							
21. 0	28. 45							
23. 55	35. 55							
Oct. 27		Oct. 27		Oct. 27				
1. 0	22. 37. 30	0. 0	(†)	3. 30	·01330	1	57 ·7	60 ·0
6. 37	30. 30	1. 40	·0988*	5. 57	·01138	3	60 ·0	63 ·0
	(†)		(†)	7. 30	·01175	9	62 ·5	66 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. E. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. E. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 27		Oct. 27		Oct. 27				
h m	° ′ ″	h m		h m			°	°
10. 12	22. 26. 15	4. 30	·0992	16. 0	·01120	22	60 ·9	63 ·0
16. 30	30. 30	7. 10	·0992	23. 30	·01200			
16. 45	34. 15	7. 30	·1019					
17. 10	32. 30	8. 30	·0988					
17. 37	35. 0	13. 0	·0998					
18. 10	30. 0		(†)					
	(†)	16. 10	·1000					
22. 10	30. 0	23. 20	·0978					
23. 25	32. 25							
Oct. 28		Oct. 28		Oct. 28				
0. 0	22. 34. 0	0. 10	·0978	0. 0	·01212	10	59 ·0	62 ·0
1. 50	38. 10	1. 40	·0967	3. 15	·01152	21	57 ·0	61 ·0
12. 0	30. 55	9. 20:	·0997	16. 50	·01545			
12. 32	27. 0	23. 1	·0977	23. 16	·01490			
13. 30	31. 20							
14. 30	29. 5							
15. 10	31. 30							
20. 48:	27. 55							
22. 58	31. 55							
Oct. 29		Oct. 29		Oct. 29				
1. 0	22. 37. 0	1. 0	·0984	1. 0	·01506	1	61 ·0	63 ·0
8. 2	32. 5	7. 35	·1005	6. 8	·01135	3	60 ·0	62 ·5
8. 45	22. 30	8. 30	·0978	10. 15	·01110	9	60 ·0	63 ·3
9. 27	27. 30	9. 27	·0993	15. 48	·01455	21	53 ·0	57 ·0
12. 0	25. 30	17. 40	·1021	23. 30	·01380			
13. 0	33. 30	23. 30	·0991					
	***							
13. 45:	27. 30							
	***							
15. 0:	26. 0							
	***							
17. 0:	34. 0							
	***							
21. 52	28. 0							
23. 30	36. 55							
Oct. 30		Oct. 30		Oct. 30				
1. 0	22. 35. 0	1. 0	·1006	1. 0	·01390	1	57 ·0	59 ·0
7. 42	26. 50	7. 32	·1002	4. 7	·01080	3	62 ·0	63 ·4
8. 20	33. 0	7. 37	·1038	8. 40	·00990	9	59 ·0	62 ·0
9. 5	21. 41	8. 42	·0956	9. 10	·01070	21	54 ·0	58 ·0
9. 50	27. 0	9. 10	·1029	11. 8	·00995			
11. 5	30. 10	9. 38	·0995	14. 30	·01135			
11. 30	19. 45		***	15. 20	·01020			
11. 45	22. 0	15. 12	·1023	23. 55	·01427			
12. 10	16. 0	17. 4	·0964					
12. 25	16. 0	17. 40	·0996					
12. 53	27. 0	18. 0	·0965					
13. 0	23. 0	19. 33	·0999					
13. 5	26. 10	23. 50:	·0977					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 30								
h m	° ′ ″	h m		h m			°	°
1. 45	22. 22. 40							
14. 40	32. 55							
15. 43	12. 55							
15. 55	14. 0							
16. 25	6. 25							
17. 20	26. 15							
17. 34	18. 0							
18. 38	36. 50							
21. 0	28. 50							
23. 55	35. 20							
Oct. 31		Oct. 31		Oct. 31				
1. 0	22. 35. 30	1. 0	·0981	1. 0	·01450	1	56 ·0	58 ·0
9. 0	28. 20	16. 40	·1015	2. 40	·01465	3	57 ·0	58 ·0
	***	23. 38:	·0993	8. 30:	·01090	9	55 ·0	58 ·5
14. 30	30. 50			14. 50	·01418	21	52 ·0	56 ·0
21. 5	28. 10			23. 55	·01370			
23. 55	34. 35							
Nov. 1		Nov. 1		Nov. 1				
1. 0	22. 35. 45	0. 58	·0997	0. 30	·01410	1	53 ·0	55 ·0
11. 20	28. 0	18. 15:	·1017	6. 42	·00982	3	55 ·0	58 ·8
12. 15	32. 30	23. 55	·0998	10. 53:	·00935	9	56 ·0	59 ·3
20. 0	26. 0			19. 33	·01370	21	51 ·0	54 ·5
21. 25	30. 10			23. 30	·01340			
21. 53	28. 40							
23. 52	35. 0							
Nov. 2		Nov. 2		Nov. 2				
1. 10	22. 35. 50	1. 0	·1004	1. 0	·01368	1	55 ·0	56 ·3
12. 0:	23. 0	18. 50:	·1019	4. 18	·01050	3	58 ·0	60 ·0
	***	23. 25	·0994	6. 5	·01080	9	59 ·0	62 ·0
15. 0:	30. 20			10. 30:	·00990	21	54 ·0	57 ·0
	***			18. 40	·01440			
20. 30	28. 0			23. 45	·01410			
23. 36	35. 10							
Nov. 3		Nov. 3		Nov. 3				
1. 14	22. 36. 55	1. 15	·0990	1. 0	·01420	1	54 ·0	57 ·0
2. 0	40. 10	20. 25:	·1015	6. 22	·01040	3	57 ·0	59 ·0
3. 0	34. 0	23. 30	·1004	12. 20	·00978	9	58 ·0	60 ·4
8. 40	31. 50			23. 50	·01230	22	55 ·0	58 ·5
9. 25	27. 20							
13. 30	31. 50							
20. 30	29. 0							
23. 30	33. 0							
Nov. 4		Nov. 4		Nov. 4				
0. 0:	22. 35. 0	0. 43	·0999	0. 0	·01240	9	56 ·5	60 ·5
10. 30:	30. 0	20. 15:	·1013	2. 25:	·01283	21	52 ·0	55 ·0
11. 53:	21. 30	21. 8	·0998	10. 0:	·01132			
12. 52:	30. 45	23. 30	·1002	19. 12	·01423			
Nov. 4								
h m	° ′ ″							
23. 30:	22. 36. 0							
Nov. 5								
1. 0	22. 35. 5							
7. 55	26. 50							
12. 0:	28. 15							
14. 54:	31. 50							
22. 0	28. 55							
23. 42	34. 40							
Nov. 6								
0. 50	22. 36. 0							
4. 0	26. 5							
5. 38	30. 55							
9. 27	24. 0							
	***							
15. 26	32. 20							
	***							
20. 50	27. 10							
23. 55	32. 0							
Nov. 7								
0. 55	22. 33. 30							
21. 0:	28. 0							
23. 55:	33. 0							
Nov. 8								
1. 0	22. 34. 10							
8. 0:	25. 55							
11. 15	26. 0							
21. 30	27. 10							
23. 55	32. 0							
Nov. 9								
1. 0	22. 33. 0							
21. 30:	28. 5							
23. 58	32. 15							
Nov. 10								
0. 47	22 34. 0							
3. 20	33. 0							
5. 30:	34. 30							
	***							
11. 15	28. 20							
	***							
16. 0	30. 0							
21. 0	28. 5							
23. 25	36. 35							
Nov. 4								
h m								
23. 30	·01337							
Nov. 5								
1. 0	·01372	1	55 ·0	57 ·4				
5. 10	·00986	3	59 ·0	60 ·7				
6. 0	·01002	9	55 ·0	58 ·0				
9. 45:	·00935	21	48 ·0	52 ·0				
16. 5	·01355							
23. 0	·01295							
Nov. 6								
1. 0	·01318	1	51 ·0	53 ·5				
5. 38	·00905	3	55 ·0	57 ·0				
11. 0	·00852	9	53 ·5	57 ·0				
18. 10	·01293	21	46 ·0	50 ·0				
23. 55	·01287							
Nov. 7								
1. 0	·01308	1	49 ·0	52 ·0				
5. 55	·00945	3	53 ·0	55 ·0				
20. 40:	·01050	9	56 ·0	58 ·0				
23. 30	·01005	21	59 ·0	62 ·5				
Nov. 8								
1. 0	·01010	1	59 ·0	61 ·8				
9. 26	·01070	3	60 ·0	62 ·4				
23. 30	·01420	9	59 ·5	63 ·0				
		21	59 ·0	60 ·5				
Nov. 9								
1. 0	·01415	1	60 ·0	60 ·0				
8. 30:	·01130	3	60 ·0	60 ·0				
15. 40	·01370	9	59 ·0	62 ·0				
23. 0	·01330	21	56 ·5	58 ·5				
Nov. 10								
0. 30	·01520	1	57 ·0	58 ·8				
9. 0:	·01010	3	60 ·0	61 ·0				
16. 20	·01450	9	58 ·5	60 ·5				
23. 30	·01400	22	54 ·0	55 ·0				

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov. 11		Nov. 11		Nov. 11				
h m	° ′ ″	h m		h m			°	°
0. 0	22. 39. 0	0. 0	·0998	0. 0	·01420	11	56·0	57·5
7. 30	29. 25	0. 30	·0994	1. 15:	·01445	21	52·0	54·0
8. 20	24. 30	2. 21	·1005	5. 48	·01072			
12. 20	29. 0	4. 0	·0984	10. 0	·00995			
13. 0	37. 55	6. 22	·1000	17. 42	·01435			
13. 20	33. 10	8. 0	·0986	23. 0	·01385			
13. 30	34. 45	10. 0	·1005					
14. 20	23. 25	12. 37	·1002					
15. 12	29. 50	12. 58	·1023					
23. 58	34. 25	13. 15	·1007					
		18. 11	·1016					
		23. 0	·1007					
Nov. 12		Nov. 12		Nov. 12				
0. 25	22. 37. 0	1. 51	·1000	0. 30	·01402	1	53·0	54·0
10. 15	25. 55	18. 37	·1027	2. 22:	·01440	3	56·0	57·0
11. 2	29. 30	23. 38	·0983	12. 45:	·00890	9	56·0	57·5
12. 0	25. 0			23. 55	·01126	21	53·0	55·0
13. 30	29. 30							
18. 0	33. 10							
21. 59	30. 10							
23. 58:	39. 30							
Nov. 13		Nov. 13		Nov. 13				
1. 5	22. 40. 0	1. 15	·0991	2. 0	·00950	1	56·0	57·0
1. 15	45. 20	1. 42	·0975	5. 13	·01095	3	57·0	57·8
1. 45	39. 30	2. 20	·1000	10. 5	·00968	9	56·0	57·0
2. 35	43. 30	2. 53	·0975	19. 20	·01425	21	52·5	54·5
3. 8	32. 45	3. 18	·0998	23. 55	·01435			
3. 28	41. 5	3. 42	·0973					
4. 5	34. 10	4. 20	·0987					
5. 3	34. 30	5. 18	·0972					
5. 12	40. 30	6. 42	·0998					
5. 38	37. 45	19. 25	·1013					
9. 10	29. 0	23. 17	·0989					
	***							
12. 8	26. 0							
	***							
13. 16:	35. 0							
	***							
17. 15:	28. 0							
	***							
23. 30:	33. 0							
Nov. 14		Nov. 14		Nov. 14				
0. 10	22. 32. 55	0. 38	·0991	0. 30	·01425	1	53·5	56·5
	***	13. 30	·1010	7. 20:	·01130	3	55·0	57·0
7. 53	31. 30	14. 55	·1033	12. 0:	·01370	9	52·5	55·0
	***	16. 0	·1013	15. 20	·01260	22	46·0	47·0
8. 35	23. 30	16. 30	·1025	23. 0	·01295			
	***	17. 45	·1009					
9. 6:	29. 45	23. 0	·1009					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov. 14								
h m	° ′ ″	h m		h m			°	°
9. 52	22. 25. 0							
	***							
11. 50	30. 0							
13. 14	26. 20							
	***							
14. 0	29. 10							
	***							
14. 25	22. 30							
	***							
14. 55	35. 55							
	***							
16. 8	25. 0							
	***							
18. 30	30. 0							
	***							
19. 55	31. 30							
	***							
20. 32	23. 30							
	***							
23. 30	31. 55							
Nov. 15		Nov. 15		Nov. 15				
1. 0	22. 84. 50	0. 0	·1012	0. 0:	·01292	9	49·0	50·0
6. 10	24. 0	6. 5	·1015	2. 30:	·01320	21	45·5	48·0
23. 50	36. 0	6. 30	·1039	10. 30:	·01050			
		7. 20	·1017	23. 0	·01265			
		12. 50	·1013					
			(†)					
		22. 3	·1023					
		22. 39	·1020					
Nov. 16		Nov. 16		Nov. 16				
1. 5	22. 34. 55	1. 30	·1019	1. 30	·01162	1	47·0	49·8
8. 12	26. 0	5. 15	·1005	5. 7	·00870	3	51·0	52·5
	***	9. 0:	·1025	10. 15:	·00815	9	50·0	52·5
16. 30:	31. 30	18. 40	·1029	18. 10	·01285	21	43·5	47·0
	***	23. 42	·1018	23. 30	·01278			
23. 38:	32. 50							
Nov. 17		Nov. 17		Nov. 17				
1. 0	22. 32. 0	1. 40	·1022	1. 15	·01315	1	46·0	48·0
11. 30:	28. 5	16. 40:	·1028	5. 37	·00892	3	50·0	51·0
14. 40:	30. 0	23. 30	·1018	10. 0:	·00830	9	48·0	49·8
23. 30	30. 25			23. 30	·01270	22	46·5	48·0
Nov. 18		Nov. 18		Nov. 18				
0. 0	22. 31. 0	0. 6	·1017	0. 0	·01270	9	48·5	52·0
7. 10	32. 55	6. 0	·1029	8. 40:	·00870	21	53·0	56·0
11. 5	25. 30	21. 30	·1003	23. 35	·00990			
16. 42	30. 50	23 30	·1013					
17. 20	30. 0							
18. 0	28. 5							
19. 30	30. 30							

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

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Nov.18								
h m	° ′ ″	h m		h m			°	°
20. 0	22. 28. 55							
23. 34	35. 0							
23. 53	31. 20							
Nov.19		Nov.19		Nov.19				
0. 30	22. 35. 55	1. 33	·0987	1. 0	·01017	1	54·0	55·0
7. 35	26. 50	3. 50	·1006	6. 50	·01120	3	56·0	57·5
8. 10	30. 35	4. 30	·0983	10. 30	·01000	9	55·0	58·0
9. 20	22. 10	6. 55	·1006	21. 15	·01520	21	52·0	53·0
9. 55	30. 0	7. 20	·0992	23. 55	·01490			
10. 32	16. 30	7. 55	·1010					
10. 55	21. 20	8. 48	·1001					
11. 25	16. 0	9. 48	·1026					
12. 50	31. 20	10. 12	·1000					
14. 5	29. 0	10. 45	·1011					
14. 43	34. 55	11. 55	·0991					
18. 2	29. 25	12. 42	·1016					
20. 12	31. 50	13. 53	·0999					
21. 35	28. 30	18. 45	·1026					
23. 42	36. 10	23. 55	·0997					
Nov.20		Nov.20		Nov.20				
0. 30	22. 30. 30	1. 42	·0991	1. 0	·01524	1	52·0	52·8
2. 0	33. 30	4. 15	·1013	3. 45	·01555	3	52·0	53·0
5. 35	30. 0	6. 20	·1005	11. 25:	·01305	9	51·0	52·5
6. 40	18. 30	6. 50	·1023	23. 55	·01480	21	50·0	51·0
8. 10	31. 0	8. 30	·1010					
8. 38	21. 0	9. 10	·1049					
8. 46	24. 0	9. 42	·1010					
9. 2	19. 50	9. 52	·1017					
9. 30	32. 0	10. 22	·1005					
10. 30	21. 10	11. 0	·1017					
11. 8	24. 25	12. 3	·0999					
11. 40	18. 30	12. 52	·1017					
16. 40	33. 0	18. 15	·1022					
21. 35	28. 50	23. 14	·1004					
23. 58	32. 50							
Nov.21		Nov.21		Nov.21				
1. 5	22. 33. 15	1. 0	·1001	1. 30	·01458	1	53·0	54·0
9. 34	29. 50	16. 52	·1030	9. 0:	·01050	3	54·0	55·0
10. 50	23. 0	23. 12:	·1006	19. 37	·01470	9	52·5	56·0
13. 20	32. 40			23. 55	·01450	21	46·0	52·0
15. 7	29. 0							
19. 50	35. 10							
23. 58	36. 0							
Nov.22		Nov.22		Nov.22				
1. 0	22. 37. 55	2. 0	·1008	2. 30	·01425	1	48·0	51·8
5. 20	29. 10	17. 0:	·1026	9. 0:	·01235	3	48·0	52·0
6. 35	32. 30	22. 20	·1010	23. 45	·01405	9	48·0	51·8
9. 46	27. 25	23. 50	·1014			21	44·0	50·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov.22								
h m	° ′ ″	h m		h m			°	°
13. 30	22. 30. 50							
20. 40	28. 30							
23. 58	34. 20							
Nov.23		Nov.23		Nov.23				
1. 15	22. 32. 50	1. 30	·1016	1. 0	·01412	1	46·0	50·8
10. 30	30. 0	12. 30	·1033	9. 0	·00920	3	48·5	52·0
12. 22	25. 30	23. 48	·1000	23. 55	·01006	9	49·0	53·0
15. 8	30. 40					21	49·5	55·5
16. 18	29. 0							
23. 58	34. 0							
Nov.24		Nov.24		Nov.24				
2. 0	22. 32. 10	2. 0:	·1003	1. 30	·01012	1	50·0	55·0
8. 40	25. 30	7. 10:	·1034	14. 37	·01386	3	52·0	55·8
9. 42	27. 10	23. 30:	·1018	23. 30	·01330	9	49·5	54·0
11. 0	29. 10					22	44·0	48·0
12. 50	18. 5							
13. 55	27. 5							
15. 12	23. 55							
15. 50	32. 30							
23. 55	34. 20							
Nov.25		Nov.25		Nov.25				
0. 0	22. 34. 10	0. 3	·1015	0. 0	·01325	12	43·0	47·5
7. 30	30. 0	18. 30	·1039	5. 20:	·01375	21	40·0	45·0
8. 10	24. 10	23. 7	·1022	13. 20	·01270			
8. 50	29. 0			17. 4	·01360			
9. 20	26. 50			23. 0	·01312			
13. 10	31. 55							
14. 30	29. 25							
19. 45	35. 0							
21. 13	30. 50							
23. 58	32. 20							
Nov.26		Nov.26		Nov.26				
0. 40	22. 33. 30	1. 0	·1026	1. 0	·01328	1	43·0	46·0
3. 40	32. 0	6. 15	·1013	2. 30	·01345	3	45·0	48·0
5. 25	35. 30	6. 38	·1044	9. 0:	·01030	9	43·0	47·5
6. 33	21. 0	6. 58	·1027	15. 18	·01312	21	39·0	43·0
7. 12	35. 0	19. 23	·1043	23. 7	·01284			
8. 40	30. 50	22. 57	·1006					
20. 38	35. 50							
23. 52	40. 25							
Nov.27		Nov.27		Nov.27				
0. 50	22. 39. 40	1. 30	·1023	1. 0	·01272	1	37·5	43·0
6. 30	32. 55	4. 0	·1021	2. 35	·01292	3	42·0	47·0
6. 47	37. 0	4. 32	·1007	10. 30	·00885	9	42·0	45·5
8. 12	30. 0	5. 24	·1024	23. 55	·01285	21	39·0	43·0
8. 42	19. 0	8. 30	·1005					
9. 10	31. 0	8. 52	·1043					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Nov.27		Nov.27						
h m	° ′ ″	h m		h m			°	°
14. 5:	22. 33. 30	9. 30	·1013					
18. 33	27. 35	19. 20	·1050					
19. 38	34. 45	20. 55	·0925					
19. 55	26. 0	22. 42	·1013					
21. 22	57. 30	23. 55	·1000					
21. 45	45. 0							
22. 50	36. 15							
23. 8	41. 45							
23. 55	38. 0							
Nov.28		Nov.28		Nov.28				
2. 0	22. 39. 50	4. 28	·1035	1. 0	·01302	1	40·0	44·0
2. 40	33. 55	9. 38	·1013	11. 55	·00768	3	41·0	44·8
2. 58	42. 0	9. 50	·0992	13. 40	·00772	9	43·0	46·8
3. 8	32. 0	10. 24	·1027	14. 50	·00718	21	44·0	47·5
3. 15	44. 0	11. 52	·0978	23. 55	·00885			
4. 7	34. 0	13. 0	·0971					
9. 28	31. 40	13. 47	·0997					
10. 5	10. 5	14. 3	·0981					
10. 45	9. 30	14. 35	·1006					
11. 38	15. 25	14. 50	·0996					
12. 0	8. 0	16. 27	·0992					
12. 55	25. 0	17. 7	·1017					
13. 23	18. 30	19. 32	·0995					
14. 0	33. 50	19. 55	·1029					
14. 15	28. 35	20. 52	·0990					
14. 38	35. 0	23. 48	·0990					
14. 55	26. 30							
16. 12	27. 0							
22. 58	33. 30							
Nov.29		Nov.29		Nov.29				
0. 50	22. 33. 30	1. 53	·0971	1. 15	·00930	1	49·0	50·0
1. 50	35. 0	2. 58	·0986	4. 55	·01113	3	51·0	52·5
3. 25	42. 0	3. 32	·0967	13. 10	·01050	9	50·0	52·0
3. 42	33. 0	4. 0	·0989	14. 30	·00883	21	49·0	52·0
4. 22	36. 25	4. 28	·0965	15. 30	·00955			
4. 50	16. 5	5. 10	·1009	17. 50	·09838			
5. 40	31. 0	5. 25	·0990	18. 18	·00882			
6. 25	33. 0	9. 20	·1009	19. 0	·00835			
8. 15	27. 0	10. 46	·0977	23. 55	·01032			
8. 32	29. 30	12. 6	·0995					
9. 12	19. 0	13. 0	·0961					
10. 50	20. 0	13. 15	·0977					
11. 0	25 25	13. 43	·0960					
11. 50	23. 50	14. 5	·1019					
12. 33	8. 0	14. 51	·0990					
13. 40	34. 5	16. 25	·1013					
14. 38	16. 30	17. 20	·1070					
15. 5	23. 15	18. 45	·1008					
15. 40	20. 15	20. 16	·0965					
16. 8	24. 20	20. 40	·0988					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Nov.29		Nov.29						
h m	° ′ ″	h m		h m			°	°
16. 48	22. 16. 0	21. 38	·0948					
17. 20	40. 30	23. 18	·0994					
17. 48	28. 50	23. 33	·0973					
18. 23	48. 0	23. 50	·0980					
19. 0	39. 15							
19. 17	41. 0							
21. 12	30. 40							
22. 8	43. 50							
23. 30	31. 20							
23. 58	35. 30							
Nov.30		Nov.30		Nov.30				
1. 27	22. 35. 50	1. 46	·0975	1. 30	·01060	1	51·0	53·0
3. 33	28. 30	5. 40	·1004	5. 33	·01160	3	53·0	55·0
6. 30	30. 50	7. 20	·0976	5. 37	·01282	9	55·0	58·0
7. 52	18. 25	8. 0	·0993	7. 15	·01180	21	49·0	52·0
8. 32	25. 10	8. 45	·0959	7. 55	·01220			
9. 0	23. 0	9. 4	·0971	12. 37	·01138			
9. 12	27. 0	10. 12	·0947	23. 55	·01645			
9. 50	17. 30	10. 30	·0957					
10. 55	24. 50	11. 0	·0944					
11. 35	16. 55	11. 12	·0982					
11. 50	17. 0	12. 28	·0950					
12. 14	21. 55	13. 5	·0968					
12. 30	14. 40	13. 50	·0951					
13. 30	18. 30	14. 10	·0970					
15. 4	29. 5	14. 26	·0963					
16. 8	19. 55	18. 10	·0996					
17. 13:	29. 0	23. 35	·0962					
18. 12	25. 5							
19. 0	29. 55							
20. 10	30. 20							
20. 15	28. 40							
22. 0	35. 0							
23. 58	34. 0							
Dec. 1		Dec. 1		Dec. 1				
1. 10	22. 39. 35	3. 40	·0988	0. 0	(†)	1	50·0	53·0
3. 50	30. 0	3. 58	·0973	6. 0	·01525	3	52·0	55·0
	(†)	4. 30	·0986	9. 25	·01348	9	50·0	52·0
7. 32	22. 50	4. 53	·0972	12. 45	·01465	22	49·0	51·0
8. 0	32. 10	5. 7	·0988		(†)			
15. 30	30. 0	5. 20	·0978	17. 50	·01660			
	(†)	5. 50	·0995	18. 0	·01655			
19. 30	30. 0	6. 31	·0973	23. 0	·01595			
23. 0	32. 45	6. 45	·0995					
		20. 42:	·1001					
		23. 15:	·0997					
Dec. 2		Dec. 2		Dec. 2				
0. 30	22. 32. 0	0. 0	·0999	0. 0	·01405	10	50·0	55·0
7 0	27. 0	10. 16	·1007	4. 25	·01496	21	50·5	53·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Dec. 2	° ′ ″	Dec. 2		Dec. 2			°	°
h m		h m		h m				
7. 40	22. 31. 5	23. 0	·1000	11. 7	·01250			
9. 50	28. 55			23. 0	·01345			
10. 8	25. 0							
11. 0	29. 30							
11. 47	26. 30							
14. 8	32. 30							
15. 25	28. 15							
23. 26	31. 45							
Dec. 3		Dec. 3		Dec. 3				
1. 0	22. 32. 30	1. 0	·1000	1. 0	·01450	1	50·0	54·0
7. 4	31. 0	8. 2:	·1019	12. 5	·01615	3	51·0	53·0
8. 0	24. 0	12. 30	·1019	23. 55	·01497	9	49·5	53·0
8. 46	28. 30	23. 55	·1008			21	44·0	50·0
23. 52	33. 30							
Dec. 4		Dec. 4		Dec. 4				
1. 27	22. 34. 30	1. 5	·1009	1. 30	·01515	1	44·5	48·0
11. 53	28. 0	11. 55	·1019	3. 0	·01543	3	45·5	51·0
12. 15	31. 0	12. 15	·1037	10. 0:	·01185	9	48·0	52·0
13. 44	22. 15	13. 10	·1015	15. 45	·01470	21	39·0	46·0
16. 5	29. 0	23. 45	·1026	23. 45	·01400			
23. 55	32. 15							
Dec. 5		Dec. 5		Dec. 5				
1. 15	22. 33. 0	1. 30	·1025	1. 5	·01400	1	42·0	46·0
8. 20	26. 15	16. 36	·1015	6. 25	·00968	3	43·0	47·0
9. 15	28. 45	23. 55	·1012	12. 30	·01050	9	50·5	54·0
12. 8	27. 15			17. 45	·01025	21	48·0	53·0
23. 52	31. 15			23. 55	·01158			
Dec. 6		Dec. 6		Dec. 6				
1. 8	22. 32. 10	1. 30	·1013	1. 5	·01195	1	50·0	54·5
12. 0	22. 0	14. 42	·1021	2. 50	·01170	3	53·0	56·0
	***	23. 45	·1015	5. 40	·01240	9	55·0	57·5
13. 52	26. 45			9. 30	·01172	21	48·0	53·0
	***			22. 9	·01680			
14. 48	23. 45			23. 55	·01675			
	***							
16. 0	28. 15							
23. 55	28. 30							
Dec. 7		Dec. 7		Dec. 7				
1. 4	22. 31. 0	1. 10	·1010	1. 0	·01623	1	51·5	54·5
11. 41	21. 0	5. 36	·1016	10. 45:	·01170	3	52·0	56·0
13. 33	24. 15	13. 5	·0996	23. 45	·01402	9	52·0	56·0
15. 42	20. 15	23. 55	·1009			21	48·0	54·0
16. 52	25. 30							
17. 20	23. 30							
23. 55	32. 0							

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Dec. 8	° ′ ″	Dec. 8		Dec. 8				
h m		h m		h m				
1. 30	22. 32. 30	1. 0	·1009	1. 0	·01432	1	50·0	54·0
9. 7	27. 15	19. 45:	·1022	4. 52	·01148	3	53·0	56·0
23. 34	31. 30	23. 55	·1018	6. 40	·01162	9	53·5	58·0
				6. 45	·01247	22	46·0	51·0
				8. 0	·01195			
				8. 30	·01265			
				17. 11	·01625			
				23. 55	·01535			
Dec. 9		Dec. 9		Dec. 9				
0. 30	22. 32. 45	1. 0	·1016	0. 0	·01535	10	48·0	53·5
10. 52	27. 30	21. 30	·1028	2. 45	·01570	21	44·0	49·0
23. 47	33. 0	23. 50	·1020	9. 50:	·01140			
				20. 8	·01525			
				23. 0	·01505			
Dec. 10		Dec. 10		Dec. 10				
1. 22	22. 35. 0	2. 0	·1016	1. 30	·01530	1	44·0	50·0
10. 50	28. 15	3. 58	·1002	11. 12	·01117	3	48·0	51·0
11. 20	23. 30	6. 30	·1019	23. 55	·01305	9	48·0	52·0
14. 20	29. 45	8. 40	·1010			21	45·5	50·0
15. 18	27. 30	11. 0	·1016					
23. 55	32. 15	11. 33	·1006					
		20. 23	·1027					
		23. 24	·1016					
Dec. 11		Dec. 11		Dec. 11				
1. 30	22. 34. 45	1. 0	·1025	1. 5	·01340	1	46·0	50·0
4. 9	30. 30	4. 27	·1027	10. 0:	·00985	3	48·0	52·4
7. 27	37. 15	7. 17	·0995	21. 25	·01475	9	49·5	53·0
8. 7	22. 0	8. 13	·1015	23. 55	·01450	21	43·0	48·0
9. 10	29. 15	8. 45	·1002					
15. 3	28. 15	10. 24	·1017					
23. 55	33. 30	20. 22:	·1033					
		23. 55	·1026					
Dec. 12		Dec. 12		Dec. 12				
0. 55	22. 34. 0	1. 0	·1024	1. 0	·01460	1	43·0	47·0
3. 56	36. 0	3. 33	·1020	4. 50	·01515	3	43·0	48·0
4. 47	25. 15	4. 18	·0998	10. 30	·01265	9	45·0	48·5
5. 7	38. 15	5. 0	·1029	15. 47	·01465	21	39·0	45·0
6. 0	34. 30	6. 52	·0998	23. 45	·01400			
6. 50	40. 0	9. 10	·1014					
9. 40	11. 15	9. 58	·1055					
10. 22	28. 0	10. 33	·0994					
10. 40	18. 30	10. 50	·1009					
14. 33	30 45	23. 40:	·1028					
15. 10	28. 45							
23. 55	29. 30							
Dec. 13		Dec. 13		Dec. 13				
1. 0	22. 31. 0	1. 24	·1029	1. 0	·01422	1	41·0	46·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Gottingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Dec 13	° ′ ″	Dec.13		Dec.13			°	°
h m		h m		h m				
10. 34	22. 25. 0	4. 33	·1011	12. 0:	·00905	3	43 ·0	47 ·0
13. 10	28. 15	7. 7	·1024	19. 0:	·00962	9	45 ·0	49 ·0
14. 23	23. 45	20. 37:	·1028	23. 25	·00882	21	43 ·0	48 ·0
15. 30	28. 0	23. 42	·1023					
16. 14	26. 30							
23. 23	30. 45							
Dec.14		Dec.14		Dec.14				
1. 30	22. 32. 0	1. 0	·1024	1. 0	·00940	1	47 ·5	52 ·0
14. 15	25. 0	6. 37:	·1019	5. 45	·01140	3	50 ·0	54 ·0
23. 38	29. 0	23. 22	·1002	23. 55	·01150	9	53 ·0	58 ·0
						21	53 ·5	59 ·0
Dec.15		Dec.15		Dec.15				
1. 17	22. 33. 0	2. 0	·1004	1. 0	·01170	1	57 ·0	61 ·0
13. 10	25. 0	10. 28	·0997	6. 0:	·01252	3	58 ·0	61 ·0
23. 37	29. 30	20. 42:	·1016	10. 10	·01240	9	58 ·0	62 ·5
		23. 30	·1012	10. 20	·01418	23	53 ·0	58 ·0
				17. 58	·01720			
				23. 55	(†)			
Dec.16		Dec.16		Dec.16				
1. 10	22. 31. 30	1. 0	·1012	3. 40	·01725	9	55 ·0	59 ·5
15. 15	27. 15	17. 50:	·1019	9. 30	·01555	21	53 ·0	59 ·0
23. 45	29. 30	23. 50	·1011	23. 0	·01650			
Dec.17		Dec.17		Dec.17				
1. 42	22. 34. 0	1. 30	·1014	1. 30	·01688	1	55 ·0	59 ·8
14. 36	27. 30	15. 6	·1028	5. 50	·01460	3	49 ·0	55 ·0
15. 0	31. 45	23. 53	·1011	10. 22	·01750	9	55 ·0	59 ·0
15. 45	24. 45			23. 55	·01675	21	49 ·5	55 ·0
16. 30	28. 15							
23. 40	29. 45							
Dec.18		Dec.18		Dec.18				
2. 10	22. 33. 45	1. 30	·1017	2. 0	·00660	1	50 ·0	55 ·0
4. 49	28. 30	3. 2	·1004	13. 20:	·00510	3	55 ·0	58 ·5
7. 57	31. 30	5. 40	·1015	20. 35	·00790	9	56 ·5	58 ·5
9. 42	25. 15	8. 8	·0996	23. 55	·00780	21	51 ·0	55 ·0
12. 56	28. 30	13. 2	·1019					
16. 20	24. 0	17. 10:	·1023					
17. 5	28. 0	23. 0	·1010					
23. 33	29. 15							
Dec.19		Dec.19		Dec.19				
1. 17	22. 31. 0	1. 8	·1016	1. 0	·00772	1	53 ·0	57 ·0
9. 26	26. 30	20. 0:	·1031	3. 40	·00747	3	54 ·0	57 ·8
22. 35	29. 45	23. 55	·1023	8. 30:	·00470	9	53 ·0	56 ·0
				13 10	·00722	21	44 ·0	47 ·5
				23. 40	·00620			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Dec.20	° ′ ″	Dec.20		Dec.20			°	°
h m		h m		h m				
0. 32	22. 30. 30	2. 23	·1017	1. 0	·00645	1	46 ·0	50 ·0
2. 30	34. 30	5. 8	·0995	4. 8	·00430	3	55 ·0	58 ·8
3. 42	31. 30	17. 48	·1034	5. 42:	·00492	9	51 ·0	54 ·0
5. 0	39. 0	23. 0	·1016	9. 40:	·00378	21	42 ·0	47 ·0
7. 40	26. 30			16. 25	·00672			
14. 40	28. 30			23. 0	·00595			
15. 8	32. 0							
15. 54	20. 0							
16. 45	26. 0							
17. 3	25. 0							
20. 53	34. 30							
22. 50	30. 0							
23. 57	34. 30							
Dec.21		Dec.21		Dec.21				
0. 23	22. 37. 30	0. 37	·1006	0. 0	·00605	1	44 ·0	46 ·4
9. 28	27. 45	6. 27	·1025	2. 45	·00640	3	46 ·0	48 ·8
10. 55	19. 45	10. 30	·1003	10. 0	·00247	9	47 ·0	49 ·0
11. 38	21. 45	13. 20	·1023	17. 50	·00582	21	39 ·5	44 ·0
12. 7	17. 45	13. 48	·1006	23. 0	·00552			
13. 55	29. 45	14. 18	·1043					
15. 15	15. 0	16. 0	·1018					
16. 14	27. 0	17. 14	·1030					
17. 27	27. 30	17. 52	·1018					
17. 52	36. 30	20. 0	·1031					
18. 18	30. 15	22. 18	·1004					
19. 8	36. 0	23. 0	·1008					
22. 37	32. 15							
23. 0	35. 0							
Dec.22		Dec.22		Dec.22				
0. 0	22. 32. 15	0. 0	·1011	0. 0	·00570	1	42 ·0	44 ·0
2. 13	36. 0	18. 25	·1030	10. 0	·00118	3	45 ·0	46 ·8
3. 12	31. 15	23. 25	·1017	23. 30	·00520	9	44 ·0	47 ·0
11. 0	28. 0					22	40 ·0	43 ·0
	(†)							
22. 40	30. 24*							
23. 50	(†)							
Dec.23		Dec.23		Dec.23				
0. 33	22. 31. 0	1. 0	·1020	1. 0	·00547	11	38 ·0	42 ·5
1. 50	34. 30	19. 35	·1043	4. 15	·00578	21	36 ·0	41 ·7
2. 47	30. 45	23. 15	·1019	10. 0	·00464			
11. 23	27. 45			23. 0	·00500			
11. 54	30. 15							
12. 33	23. 30							
14. 3	28. 30							
20. 0	27. 15							
	***							
23. 55	31. 0							

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Dec.24		Dec.24		Dec.24				
h m	° ′ ″	h m		h m			°	°
0. 54	22. 33. 45	1. 0	·1021	1. 0	·00505	1	43·0	43·8
3. 8	30. 30	4. 5	·1011	4. 0	·00223	3	48·0	50·0
3. 45	32. 0	9. 29	·1025	7. 30:	·00355	9	50·0	53·0
8. 4	22. 15		(†)	9. 29	·00320	22	42·0	45·0
9. 29	27. 0	23. 40	·1023	23. 35	(†)			
	(†)							
22. 40	29. 25*							
	(†)							
Dec.25		Dec.25		Dec.25				
1. 22	22. 33. 0	0. 0	·1025	0. 0	·00635	8	44·0	46·0
8. 4	29. 0	15. 10:	·1050	5. 0	·00695	21	42·0	44·0
8. 30	24. 45	22. 48	·1035	15. 40:	·00620			
9. 50	28. 15			21. 30	·00663			
14. 55	29. 0							
15. 10	32. 0							
15. 36	28. 30							
15. 58	31. 45							
16. 30	28. 15							
23. 33	30. 0							
Dec.26		Dec.26		Dec.26				
1. 40	22. 31. 23*	1. 40	·1032*	1. 40	·00567*	1	45·0	46·0
3. 40	30. 6*	3. 40	·1033*	3. 40	·00546*	3	50·0	52·0
9. 40	24. 57*	9. 40	·1038*	9. 40	·00145*	9	48·5	48·5
21. 40	26. 15*	21. 40	·1021*	21. 40	·00520*	21	43·0	45·0
		Dec.27		Dec.27				
		1. 40	·1035*	1. 40	·00470*	1	47·0	47·7
		3. 40	·1002*	3. 40	·00262*	3	54·0	54·0
		9. 40	·1004*	9. 40	·00199*	9	47·5	48·0
		21. 40	·1044*	21. 40	·00359*	21	36·0	37·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
		Dec.28		Dec.28				
		h m		h m			°	°
		1. 40	·1058*	1. 40	·00088*	1	37·0	37·0
		3. 40	·1050*	3. 40	·00108*	3	40·0	40·0
		9. 40	·1048*	9. 40	·00196*	9	37·0	37·0
		21. 40	·1050*	21. 40	·00144*	21	28·0	27·7
		Dec.29		Dec.29				
		1. 40	·1053*	2. 30	·00493	1	36·0	37·0
		3. 40	·1039*	3. 42	·00210	3	40·0	41·0
		9. 40	·1015*	5. 12	·00255	9	43·0	46·8
		23. 40	·1023*	11. 55	·00130	23	45·0	48·5
				20. 0	·00152			
				20. 40	·00228			
				23. 45	·00210			
		Dec.30		Dec.30				
		11. 40	·1003*	0. 30	·00208	11	44·0	50·0
		21. 40	·1030*	1. 33	·00227	21	39·0	42·0
				1. 43	·00280			
				10. 5	·00488			
				10. 32	·00470			
				11. 43	·00532			
				22. 45	·01370			
				23. 10	·01360			
		Dec.31		Dec.31				
				0. 0	·01375	1		45·0
				1. 10	·01400	3		49·3
				7. 25	·00678	9	48·0	50·0
		9. 40	·1037	10. 0	·00598	21		45·0
				16. 0	·00816			
				23. 45	·01330			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

The Zero for the Horizontal Force is constant throughout the year; but no reliance whatever can be placed on the constancy of the Zero of the Vertical Force beyond a single day; and in many instances it is known to be different on different days.

In passing through the Press the sheet ending with page (xvi), a slight error has been committed, by inserting in several instances, as readings of the V. F. Thermometer, degrees inferred from the readings of the H. F. Thermometer. The following readings of the V. F. Thermometer ought to be struck out:—

First and second readings: Feb. 4, 18; March 7; April 1.

First, second, and third: Feb. 21, March 26.

First, second, and fourth: Jan. 27, April 10.

Second: Jan. 31.

Second and third: April 6.

Second and fourth: Feb. 8, April 7.

Second, third, and fourth: Feb. 3, March 6.

Third: Feb. 1, 2, 19; March 2, 15; April 2.

Third and fourth: Feb. 20; March 9, 14, 21, 24, 31.

Fourth: Feb. 7, 17; March 12, 16, 18, 20, 22, 27, 28, 30; April 3.

All: Feb. 9; March 23, 25; April 8, 9, 11, 12, 13.

It is proper, however, to observe that the almost absolute equality of temperature in the boxes of the two instruments has been established by the printed comparisons, and that in many other instances when the reading of the V. F. Thermometer has not been recorded it has been remarked as being the same as that of the H. F. Thermometer.

The following corrections are required to the printed Results from the Photographic Sheets:—

Declination.

d	h	m					
Jan. 4.	4.	0	*for*	22°. 41′. 45″	*read*	22°. 38′. 10″
11			,,	11^{h}. 7^{m}	,,	11^{h}. 37^{m}
16.	22.	5	,,	22°. 38′. 0″	,,	22°. 32′. 30″
25.	9.	10	,,	22°. 26′. 0″	,,	22°. 22′. 0″

Vertical Force.

d	h	m				
Jan. 6.	12.	0	*for*	·01185	*read*	·01085
7.	0.	30	,,	·00832	,,	·00882
9.	11.	30	,,	·01190	,,	·01140
12.	6.	10	,,	·00822	,,	·00930
17.	9.	40	,,	·01110	,,	·01210
22.	6.	35	,,	·00900	,,	·01150

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1849.

The Dipping Needle is described, and the mode of using it is explained, in the *Magnetical and Meteorological Observations*, 1847, Introduction, page xliii, and in the corresponding parts of several preceding Volumes.

The needle A 2 has been used throughout the Year 1849.

Magnetic Dip, observed at the Royal Observatory, Greenwich, in the Year 1849.

Day and Approximate Hour, 1849.		Magnetic Dip.	Day and Approximate Hour, 1849.		Magnetic Dip.	Day and Approximate Hour, 1849.		Magnetic Dip.
	d h	° ′		d h	° ′		d h	° ′
January	4. 3	68. 59·50	May	20. 21	68. 52·50	September	9. 21	68. 58·75
	8. 21	68. 56·50		24. 3	68. 54·00		13. 3	68. 53·00
	14. 21	68. 56·00		27. 21	68. 51·75		16. 21	68. 40·00
	18. 3	68. 48·25					20. 3	68. 45·00
	21. 21	68. 58·00	June	3. 21	68. 57·50		20. 3	68. 45·25
	25. 3	68. 52·75		7. 3	68. 54·50		21. 3	68. 52·75
				10. 21	68. 58·50		23. 21	68. 41·00
February	1. 3	68. 49·75		14. 3	68. 35·25		27. 3	68. 48·00
	4. 21	68. 55·25		17. 21	69. 0·25		30. 21	68. 43·00
	15. 3	68. 51·25		21. 3	68. 53·50			
	18. 21	68. 51·25		24. 22	68. 59·50	October	4. 3	68. 46·50
	22. 3	68. 51·25		28. 3	68. 59·50		7. 21	68. 41·75
	25. 21	68. 53·00					11. 3	68. 46·00
			July	1. 21	68. 58·00		14. 21	68. 42·50
March	4. 21	68. 55·00		5. 3	68. 45·25		18. 23	68. 37·75
	8. 3	68. 53·75		8. 21	68. 48·50		21. 21	68. 42·50
	11. 21	68. 54·75		12. 3	68. 50·00		25. 3	68. 38·00
	18. 21	68. 54·00		15. 21	68. 49·50		28. 21	68. 43·50
	22. 3	68. 54·75		19. 3	68. 41·25			
	25. 21	68. 54·50		22. 21	68. 52·75	November	1. 3	68. 39·50
	29. 3	68. 54·00		29. 21	68. 48·25		4. 21	68. 48·25
							8. 3	68. 41·25
April	1. 21	68. 53·75	August	2. 3	68. 58·25		11. 21	68. 45·75
	5. 3	68. 55·00		5. 21	68. 58·50		21. 21	68. 42·75
	8. 21	68. 54·00		9. 3	68. 56·75		22. 3	68. 52·00
	16. 21	68. 56·00		12. 21	68. 56·75		25. 21	68. 57·00
	22. 21	68. 55·75		16. 3	68. 58·50		29. 3	68. 47·00
	26. 30	68. 53·75		19. 21	69. 0·75			
	29. 21	68. 54·50		23. 3	69. 2·25	December	6. 3	68. 43·75
				26. 21	68. 55·00		13. 3	68. 41·50
May	3. 3	68. 53·00		30. 3	68. 52·75		16. 21	68. 53·75
	5. 3	68. 56·25					20. 3	68. 42·25
	10. 3	68. 53·50	September	2. 21	68. 56·00		23. 21	68. 45·25
	13. 21	68. 55·00		6. 3	68. 53·50		28. 3	68. 40·75
							30. 21	68. 40·50

September 20^{d}. 3^{h}. In consequence of the smallness of the results for dip on September 16, and on this day, the observation was repeated on September 20.

Mean Monthly Magnetic Dip, at the Royal Observatory, Greenwich, in the Year 1849.

1849, Month.	Mean Monthly Dip at 21h	Number of Observations.	3h	Number of Observations.
	° ′		° ′	
January	68. 56 ·8	3	68. 53 ·5	3
February	68. 53 ·2	3	68. 50 ·8	3
March	68. 54 ·6	4	68. 54 ·2	3
April	68. 54 ·8	5	68. 54 ·4	2
May	68. 53 ·1	3	68. 54 ·2	4
June	68. 58 ·9	4	68. 55 ·8	3
July	68. 51 ·4	5	68. 45 ·5	3
August	68. 57 ·8	4	68. 57 ·7	5
September	68. 47 ·8	5	68. 49 ·6	6
October	68. 42 ·6	4	68. 42 ·1	4
November	68. 48 ·4	4	68. 44 ·9	4
December	68. 46 ·5	3	68. 42 ·1	4
Mean	68. 52 ·2		68. 50 ·4	

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1849.

The Apparatus used for observation of the Deflexion of a Magnet is described, and the method of computing the results is explained, in the Greenwich *Magnetical and Meteorological Observations*, 1847, Introduction, page xlv, and in preceding Volumes. The magnet, marked $\frac{D}{XX}$ (the same which was used in preceding years), has been employed to produce the deflexion of another magnet, marked $\frac{H}{23}$ (of nearly the same dimensions): and the vibrations then observed are those of $\frac{D}{XX}$.

The following is the explanation of the notation used:—

m = the magnetic moment of the deflecting magnet $\frac{D}{XX}$.

X = the absolute measure of horizontal magnetic force.

K = the moment of inertia of $\frac{D}{XX}$ with its stirrup and pulley as suspended for vibration = 3·92866: the unit of length being the English foot, and the unit of weight being the English grain.

T = the time of vibration in seconds of mean solar time.

Then when the natural sine of the observed deflexion (the Deflecting Magnet being in the Lateral Position) is expressed by the formula

$$\frac{a}{(\text{distance})^3} + \frac{b}{(\text{distance})^5},$$

we have for the formula of computation

$$\frac{m}{X} = \tfrac{1}{2} a$$

$$m X = \frac{\pi^2 K}{T^2}$$

from which m and X are found.

The natural sine of the observed deflexion when the Deflecting Magnet is in the Axial Position is treated in the same manner as the former, for expressing it by the formula

$$\frac{a_1}{(\text{distance})^3} + \frac{b_1}{(\text{distance})^5}$$

but no further use is made of these deflexions.

For the determination of the Absolute Measure of Horizontal Force on those days on which Vibrations, unaccompanied by Deflexions, were observed: it is assumed that the quantity m (which is peculiar to the magnet) changes at a uniform rate from one observation of deflexion to the next; and the comparison of its interpolated value with the value of $m X$ given by the vibration determines the value of X.

Observed Deflexions of a Magnet for Absolute Measure of Horizontal Force.

Month and Day, 1849.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distance of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibrations of Deflecting Magnet.	Number of Vibrations.	Temperature.
		ft. in.	°	° ′ ″	″		°
January 9	Lateral	1. 0		12. 17. 52 ·79	5 ·075	100	46 ·0
	Axial.....		44 ·3	6. 33. 14 ·71			
	Lateral	1. 6		3. 36. 50 ·59			
	Axial.....			1. 50. 23 ·31			
					5 ·078	100	45 ·5
January 31	Lateral	1. 0		12. 17. 6 ·54	5 ·062	102	42 ·5
	Axial.....		44 ·3	6. 35. 41 ·33			
	Lateral	1. 6		3. 37. 49 ·85			
	Axial.....			1. 50. 19 ·94			
					5 ·084	126	46 ·3
February 27	Lateral	1. 0		12. 19. 9 ·92	5 ·077	100	42 ·0
	Axial.....		45 ·2	6. 34. 1 ·90			
	Lateral	1. 6		3. 34. 51 ·74			
	Axial.....			1. 48. 56 ·23			
					5 ·081	100	45 ·7
May 19	Lateral	1. 0		12. 9. 53 ·06	5 ·084	140	55 ·5
	Axial.....		60 ·3	6. 32. 26 ·95			
	Lateral	1. 6		3. 34. 5 ·77			
	Axial.....			1. 51. 18 ·70			
					5 ·084	100	62 ·2
October 10	Lateral	1. 0		12. 11. 24 ·67	5 ·093	100	49 ·0
	Axial.....		55 ·3	6. 31. 54 ·85			
	Lateral	1. 6		3. 35. 53 ·78			
	Axial.....			1. 50. 4 ·95			
					5 ·097	100	57 ·0
December 20	Lateral	1. 0		12. 12. 43 ·43	5 ·092	100	40 ·5
	Axial.....		41 ·6	6. 31. 56 ·36			
	Lateral	1. 6		3. 36. 8 ·80			
	Axial.....			1. 48. 59 ·23			
					5 ·045	40	42 ·5

Dec. 20. In the determination of the adopted time of vibration of the Deflecting Magnet, for the calculation of the Absolute Measure of Horizontal Force, double weight was given to the first determination.

Computation of the Values of Absolute Measure of Horizontal Force from Observations of Deflexion of a Magnet.

Month and Day, 1849.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a_1.	Apparent Value of b_1.	Adopted Value of a, assuming the Mean Value of b as applicable to all.	Log. $\frac{1}{2}a = \text{Log.}\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. $m X$.	Value of X.	Value of m.
								s			
January 9	+0·21257	+0·00043	+0·00040	+0·10376	+0·01038	+0·2126	9·02653	5·077	0·17733	3·7619	0·3999
31	+0·21445	−0·00167		+0·10311	+0·01174	+0·2130	9·02658	5·073	0·17802	3·7646	0·4002
February 26	+0·20876	+0·00460		+0·10096	+0·01341	+0·2124	9·02617	5·079	0·17698	3·7619	0·3996
May 19	+0·20954	+0·00118		+0·10552	+0·00839	+0·2102	9·02164	5·084	0·17612	3·7778	0·3971
October 10	+0·21234	−0·00118		+0·10351	+0·01025	+0·2110	9·02317	5·095	0·17425	3·7631	0·3969
December 20	+0·21247	−0·00094		+0·10157	+0·01219	+0·2113	9·02387	5·076	0·17750	3·7742	0·3987

Values of Absolute Measure of Horizontal Force, from Observations of Vibration of the Deflecting Magnet $\frac{H}{23}$, unaccompanied by Deflexions.

Month and Day, 1849.	Adopted time of Vibration.	Temperature.	Log. $m X$.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.
	s	°			
January 18	5·092	51·0	0·17578	0·4000	3·7386
February 12	5·109	49·0	0·17188	0·4001	3·7129
14	5·067	48·5	0·17904	0·4001	3·7746
May 12	5·079	53·7	0·17698	0·3974	3·7823
June 6	5·102	66·0	0·17306	0·3971	3·7511
August 6	5·095	76·0	0·17426	0·3970	3·7625
September 8	5·079	65·0	0·17698	0·3969	3·7870
November 23	5·092	42·0	0·17476	0·3981	3·7564

The number of observed vibrations in the different determinations varied from 100 to 140.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1849.

The day in the first column of the following tables is to be understood, generally, as defined in civil reckoning.

The barometer is described in the *Greenwich Magnetical and Meteorological Observations*, 1847, Introduction, page xlviii, and in the corresponding parts of several preceding volumes. The barometer has been read at 21^h, 0^h, 3^h, 9^h (Astronomical), on every day, excepting on Sundays and on Good Friday and Christmas Day, on which days a smaller number of observations has been taken. Every reading has been reduced to the reading which would have been obtained at the temperature 32° of the mercury and scale, by application of the correction given in table II (pages 82 to 87) of the Report of the Committee of Physics of the Royal Society. The mean of the reduced readings has then been taken for each civil day, and finally converted into mean daily reading by application of the correction inferred from Mr. Glaisher's paper in the *Philosophical Transactions*, 1848, part I.

The positions of all the thermometers are described in the Introduction, 1847, page lxix.

The thermometers used for determining the "highest and lowest readings of the dry thermometers" are self-registering thermometers, as described in the Introduction, 1847, page lxvii; and their index-errors have been found for every month, in the manner there explained. The readings given in these tables are corrected for the index-errors.

The dry-bulb and wet-bulb thermometers are described in the Introduction, 1847, page xlix; their scales have been verified from time to time, in the manner there described.

The mean daily reading of the dry thermometer is inferred from observations taken at the same hours as the observations of the barometer; the mean of these is corrected by a quantity given in the *Phil. Trans.*, 1848, part I.

The dew-point has been exclusively inferred from simultaneous observations of the dry-bulb and wet-bulb thermometers. In order to find the difference between the dry-bulb reading and the dew-point, the difference between the dry-bulb and the wet-bulb readings has been multiplied by a factor taken from the following table (deduced by Mr. Glaisher from comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, to the end of the year 1844).

TABLE OF FACTORS, BY WHICH THE DIFFERENCE OF READINGS OF THE DRY-BULB AND WET-BULB THERMOMETERS IS TO BE MULTIPLIED, IN ORDER TO PRODUCE THE DIFFERENCE BETWEEN THE READINGS OF THE DRY-BULB AND DEW-POINT THERMOMETERS.

Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.
°		°		°		°		°		°	
20	8·5	32	3·1	44	2·3	56	1·9	68	1·6	80	1·5
21	8·5	33	2·8	45	2·3	57	1·9	69	1·5	81	1·5
22	8·5	34	2·6	46	2·3	58	1·9	70	1·5	82	1·5
23	8·5	35	2·6	47	2·2	59	1·8	71	1·5	83	1·5
24	7·3	36	2·6	48	2·2	60	1·8	72	1·5	84	1·5
25	6·4	37	2·5	49	2·2	61	1·8	73	1·5	85	1·5
26	6·1	38	2·5	50	2·1	62	1·7	74	1·5	86	1·5
27	6·1	39	2·5	51	2·1	63	1·7	75	1·5	87	1·5
28	5·7	40	2·4	52	2·0	64	1·7	76	1·5	88	1·5
29	5·0	41	2·4	53	2·0	65	1·6	77	1·5	89	1·5
30	4·6	42	2·4	54	2·0	66	1·6	78	1·5	90	1·5
31	3·7	43	2·4	55	2·0	67	1·6	79	1·5		

Tables nearly equivalent to this have been used in the reduction of the observations with the wet-bulb thermometer in the years following 1844.

The dew-point being thus found for each individual observation, the mean is taken for each day (as defined from midnight to midnight), and this mean is corrected by application of the elements in the *Phil. Trans.*, 1848, part I.

The thermometers exhibiting the highest temperature in the sunshine, the lowest on the grass, and the highest and lowest temperatures of the water of the Thames, are described in the Introduction, 1847, pages lxix and lxxi. They are occasionally verified. That for the highest temperature in the sunshine was out of order from June 5 to 16, August 25 to 27, October 5 to 15, October 21 to November 1, and December 2 to 16; and those for the temperature of the Thames water from July 18 to August 6.

The mean daily value of the difference between dew-point temperature and air temperature is the difference between the two numbers in the sixth and seventh columns. The Greatest and Least are the greatest and least among the

differences corresponding to the times of observation in the civil day, and they probably differ little from the absolute maxima and minima.

The difference between the mean temperature for the day and the mean for the same day of the year on an average of seven years, is found by comparison with a table of results deduced by Mr. Glaisher from seven years' observations, made in the Magnetic and Meteorological Department of the Royal Observatory in nearly the same locality as that in which the present observations are made, which are printed in the *Greenwich Magnetical and Meteorological Observations*. For all ordinary week days, the mean adopted in these results was the mean of the twelve readings made at equidistant intervals of two hours. For Sundays and exceptional days the maximum and minimum readings were taken, and their mean was corrected for a difference exhibited in the Introductions to the various volumes of the *Magnetical and Meteorological Observations*.

Osler's Anemometer is described in the Introduction, 1847, page lxxi. Little explanation of the results deduced from it appears to be necessary. In the columns of direction, the letter C is occasionally used for Calm. It may be understood generally that the greatest pressure occurred in gusts of short duration.

Whewell's Anemometer is described in the Introduction, 1847, page lxxii. The amount of movement of air here exhibited is to be understood as from 22^h to 22^h (10^h A.M. to 10^h A.M.), the numbers being placed opposite to the day preceding the civil day on which the instrument is read. This instrument was broken in a gale of wind on February 28, and was not replaced till April 21.

The register of rain is read at 9^h P.M. from Crosley's rain-gauge, described in page lxxv of the Introduction, 1847. If, however, there appears to be any doubt as to the correctness of the results, reference is made to the rain-gauge No. 2, described in the same place.

For understanding the divisions of time under the heads of Electricity and Weather, the following remarks are necessary:—The day is divided by columns into two parts (from midnight to noon, and from noon to midnight), and each of these parts is roughly subdivided into two or three parts by colons (:). Thus, when there is a single colon in the first column, it denotes that the remarks before it apply (roughly) to the interval from midnight to 6 A.M., and those following it to the interval from 6 A.M. to noon. When there are two colons in the first column, it is to be understood that the twelve hours are divided into three nearly equal parts of four hours each. And similarly for the second column.

The Electrical Apparatus is described in page lxxvii of the Introduction, 1847. The following is the explanation of the notation employed, it being premised that the quality of the Electricity is always to be supposed positive when no indication of quality is given:

g cur. denotes *galvanic currents*	N denotes *negative*	s denotes *strong*	v denotes *variable*
m .. *moderate*	P .. *positive*	sp .. *sparks*	w .. *weak*

The duplication of the letter denotes an intensity of the modification described; thus s s is very strong, v v very variable.

The Electric Apparatus was under repair from March 24 to April 12.

The Clouds and Weather are described generally by Howard's nomenclature; the figure denotes the proportion of sky covered by clouds, the whole sky being represented by 10. The notation is as follows:

a denotes *aurora borealis*	h-fr denotes *hoar frost*	r denotes *rain*	sqs denotes *squalls*
ci .. *cirrus*	h .. *haze*	fr-r .. *frozen rain*	h-sqs .. *heavy squalls*
ci-cu .. *cirro-cumulus*	hl .. *hail*	h-r .. *heavy rain*	sc .. *scud*
ci-s .. *cirro-stratus*	so-ha .. *solar halo*	c-h-r .. *continued heavy rain*	sl .. *sleet*
cu .. *cumulus*	l .. *lightning*	m-r .. *misty rain*	sn .. *snow*
cu-s .. *cumulo-stratus*	li-cl .. *light clouds*	sl-r .. *slight rain*	sl-sn .. *slight snow*
d .. *dew*	lu-co .. *lunar corona*	h-sh .. *heavy showers*	s .. *stratus*
h-d .. *heavy dew*	lu-ha .. *lunar halo*	fr-shs .. *frequent showers*	t .. *thunder*
f .. *fog*	m .. *meteor*	fr-h-shs. *frequent heavy showers*	t-s .. *thunder storm*
th-f .. *thick fog*	ms .. *meteors*	li-shs .. *light showers*	w .. *wind*
fr .. *frost*	n .. *nimbus*	sq .. *squall*	st-w .. *strong wind*

Observations of special character are reserved for the pages following the tabular arrangement.

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	P. M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Whewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Jan. 1	In Equator	30·073	36·4	27·8	30·7	24·8	40·8	17·4	40·2	37·5	5·9	8·3	4·3	— 7·6	NE	ENE	2·8	0·0	0·4	135	0·00
2	First Qr.	29·939	28·0	20·4	24·6	19·9	41·4	17·2	39·2	34·5	4·7	7·9	3·2	—13·0	ENE	ENE	2·5	0·0	0·1	205	0·00
3	..	29·605	30·3	19·9	25·4	20·5	41·5	20·5	37·0	32·5	4·9	8·7	1·5	—11·5	NE	Calm; NE	0·0	0·0	0·0	60	0·00
4	..	29·679	35·3	29·5	32·7	30·0	37·0	31·3	36·2	32·0	2·7	5·5	1·8	— 3·7	NE	NE	0·8	0·0	0·0	70	0·03
5	..	29·700	34·2	31·6	32·7	32·0	35·5	30·0	35·5	32·5	0·7	1·3	1·0	— 3·5	NE	NE	0·0	0·0	0·0	25	0·21
6	..	29·915	37·8	25·6	31·4	28·2	48·9	21·5	34·5	32·2	3·2	7·0	1·9	— 4·4	NNE	NE	0·0	0·0	0·0	..	0·00
7	Perigee Greatest Declination N.	29·927	36·2	22·7	31·0	29·1	35·5	32·0	35·1	33·8	1·9	4·9	2·2	— 4·6	SW	SW; S	0·0	0·0	0·0	105	0·10
8	Full	29·486	39·3	35·2	37·6	36·1	40·0	32·0	36·3	34·1	1·5	2·8	1·0	+ 2·1	SSE	SE; SW	1·3	0·0	0·1	125	0·13
9	..	29·423	46·2	37·1	41·2	37·0	48·8	34·4	37·8	34·6	4·2	6·1	1·9	+ 5·7	SW	W; SW	2·0	0·0	0·1	205	0·07
10	..	28·920	49·5	36·7	45·0	36·9	49·5	40·0	38·8	36·6	8·1	11·3	8·1	+ 9·4	S	W	9·0	0·0	3·3	315	0·05
11	..	29·346	47·0	32·4	37·2	32·1	43·6	25·0	38·8	37·4	5·1	7·0	0·8	+ 1·5	W by S; NNW	NNW	10·5	0·0	3·6	210	0·05
12	..	29·993	39·8	28·0	34·0	32·0	41·8	28·0	38·5	37·4	2·0	5·5	1·0	— 1·8	N by W	S	2·4	0·0	0·4	215	0·00
13	..	29·601	53·9	38·2	49·3	48·4	53·3	48·5	40·7	37·8	0·9	3·8	2·8	+13·3	SW	SSW	4·3	0·0	1·4	405	0·08
14	In Equator	29·433	56·4	40·3	49·3	44·2	57·0	31·0	41·8	39·8	5·1	7·9	4·2	+13·1	SSW	WSW	15·0	0·4	3·4	290	0·06
15	..	29·899	43·0	34·5	39·1	35·2	44·8	30·0	42·5	41·1	3·9	5·8	3·0	+ 2·7	SSW	SW	0·0	0·0	0·0	120	0·00
16	Last Qr.	29·730	50·3	30·5	42·9	41·8	50·3	35·0	43·1	41·6	1·1	2·3	1·3	+ 6·3	SW; S	S	1·8	0·0	0·0	165	0·01
17	..	29·665	54·5	44·4	50·3	47·8	55·0	32·0	44·3	42·1	2·5	4·8	2·2	+ 3·3	S	SW; N by W	4·0	0·0	0·7	165	0·18
18	Apogee	29·869	53·2	36·5	46·9	43·0	58·3	43·0	44·5	43·1	3·9	7·1	2·5	+ 9·6	S	SW	5·0	0·0	1·8	325	0·00
19	..	29·836	53·2	47·0	49·9	46·5	60·2	40·5	45·3	43·8	3·4	5·0	2·4	+12·4	SW	SSW; S	2·3	0·0	0·0	165	0·00
20	..	30·051	51·5	45·0	47·8	44·9	59·8	41·0	45·9	44·6	2·9	4·6	2·2	+10·3	S	S by W	0·0	0·0	0·0	110	0·00
21	Greatest Declination S.	30·029	51·1	44·3	47·8	44·4	51·5	39·5	46·5	45·1	3·4	4·4	3·1	+10·2	S	SSW	6·0	0·0	1·9	220	0·00
22	..	29·994	50·9	37·2	44·2	35·7	55·8	37·0	46·5	45·1	8·5	11·7	6·2	+ 6·7	SW	SW	5·0	0·3	2·3	335	0·10
23	..	30·261	53·7	39·5	47·3	41·9	60·8	41·0	45·9	44·8	5·4	8·6	4·6	+ 9·8	SW	WSW	4·0	0·3	1·1	360	0·00
24	New	30·199	52·2	43·8	48·4	40·0	52·0	46·0	45·9	45·1	8·4	10·7	6·7	+10·9	WSW	WSW	10·0	0·0	3·5	495	0·00
25	..	29·921	53·1	48·8	49·6	42·2	57·5	43·0	45·8	44·8	7·4	8·2	6·4	+12·3	W	SSW	4·0	0·0	3·1	425	0·00
26	..	29·749	50·7	37·3	44·1	35·6	60·0	26·0	45·8	44·6	8·5	12·5	3·9	+ 6·9	SSW	WSW; SW	3·8	0·0	1·1	230	0·06
27	..	29·699	44·6	31·8	39·5	35·4	51·7	32·0	45·1	43·8	4·1	7·1	1·9	+ 2·6	SW	SSE	2·4	0·0	0·2	150	0·01
28	..	29·274	45·1	34·6	39·2	32·4	53·7	30·5	44·3	42·6	6·8	9·0	4·2	+ 2·5	S; SW	SSW	2·4	0·0	0·2	225	0·40
29	In Equator	29·652	42·4	31·0	36·9	34·1	46·5	25·0	43·5	41·6	2·8	4·3	3·3	+ 0·6	NNW	NNW	4·8	0·0	1·0	125	0·05
30	..	29·946	46·6	30·7	38·2	36·2	48·0	28·5	42·3	40·6	2·0	4·5	1·6	+ 2·3	N by W; E by S	S by W	2·0	0·0	0·2	155	0·00
31	First Qr.	30·085	45·2	30·1	39·4	32·0	53·4	18·5	42·1	40·4	7·4	10·8	4·5	+ 4·9	W	WSW	1·8	0·0	0·1	90	0·02
Feb. 1	..	30·195	44·5	30·3	37·3	35·0	50·2	32·7	41·3	40·1	2·3	4·3	1·9	+ 2·0	SW	WSW	0·0	0·0	0·0	55	0·01
2	..	30·221	49·4	37·7	45·4	43·7	52·0	41·5	41·5	40·4	1·7	2·4	1·3	+10·7	SSE	S	0·0	0·0	0·0	55	0·02
3	Perigee	30·293	49·0	43·1	45·4	43·8	50·4	41·5	42·7	40·8	1·6	3·5	0·9	+11·0	S by E; Calm	Calm	0·0	0·0	0·0	115	0·02
4	Greatest Declination N.	30·354	53·1	43·7	48·2	44·6	50·8	43·0	43·3	41·6	3·6	5·2	3·6	+14·2	S by W; Calm	WSW; Calm	1·0	0·0	0·1	110	0·00
5	..	30·365	50·3	43·4	46·0	43·2	54·0	40·5	44·7	42·1	2·8	4·2	3·0	+12·4	Calm; W	WSW	0·0	0·0	0·0	60	0·00
6	..	30·303	48·2	43·3	44·1	40·6	46·8	43·0	45·1	42·6	3·5	5·1	2·5	+10·8	WSW; Calm	Calm	0·0	0·0	0·0	30	0·00
7	Full	30·281	45·2	40·3	42·0	38·2	46·0	40·0	45·3	42·8	3·8	6·9	3·8	+ 9·5	S by W; W by N	WSW; SSW	1·3	0·0	0·0	110	0·00
8	..	30·053	53·2	39·0	45·2	39·7	62·7	34·5	45·3	43·1	5·5	9·0	2·6	+12·6	SW; SSW	SSW; WSW	2·6	0·0	0·5	200	0·06
9	..	30·344	47·6	33·4	42·0	36·7	53·7	29·5	44·9	43·2	5·3	8·1	3·3	+ 9·0	SW; SSW	SW	2·0	0·0	0·3	285	0·00
10	In Equator	30·303	52·9	42·7	47·8	44·1	57·0	35·5	45·1	43·6	3·7	6·2	1·6	+14·5	SW; WSW	WSW; W by S	4·4	0·0	0·5	205	0·00
11	..	30·695	49·7	33·6	40·9	35·9	64·0	25·0	44·9	43·6	5·0	9·2	2·6	+ 6·9	S	S	0·0	0·0	0·0	10	0·00
12	..	30·560	44·7	27·0	35·6	32·0	49·9	22·0	44·3	42·8	3·6	6·2	1·8	+ 0·7	S by E	W	0·0	0·0	0·0	20	0·00
13	..	30·436	44·2	23·5	35·4	34·4	56·2	19·8	43·5	42·6	1·0	3·6	1·2	— 0·5	W by S	WSW	3·0	0·0	0·4	5	0·00
14	..	30·539	52·2	31·9	42·6	35·6	62·5	24·5	43·3	42·1	7·0	12·0	0·5	+ 5·7	WSW	W by S	4·0	0·0	0·5	190	0·00
15	Last Quarter and Apogee	30·404	57·8	42·3	48·8	42·6	71·7	32·5	43·3	42·2	6·2	9·7	2·8	+11·0	W	SW	0·0	0·0	0·0	85	0·00
16	..	30·360	44·8	35·8	39·7	36·1	52·0	31·5	43·5	42·1	3·6	6·4	2·8	+ 1·3	SW	SW	0·0	0·0	0·0	40	0·00
17	..	30·453	53·6	29·8	42·2	37·2	65·8	26·0	43·3	41·8	5·0	10·2	1·9	+ 3·2	SW	SW	0·0	0·0	0·0	205	0·00
18	Greatest Declination S.	30·333	50·2	35·6	43·0	39·6	58·3	31·0	43·1	41·8	3·4	4·8	0·8	+ 3·7	SW	SW	0·0	0·0	0·0	205	0·00
19	..	29·966	52·1	36·4	45·8	40·3	62·0	42·0	43·7	42·6	5·5	9·2	3·1	+ 6·3	SW	SSW	5·3	0·0	2·8	325	0·00
20	..	29·602	51·8	42·1	45·9	44·1	56·1	35·5	43·7	42·8	1·8	5·1	0·6	+ 6·3	SSW	SW; NNW	2·8	0·0	0·6	175	0·40
21	..	29·830	47·1	35·7	43·0	36·8	54·0	30·0	45·3	43·1	6·2	10·6	1·5	+ 3·4	WNW; WSW	SW; SSW	1·5	0·0	0·1	210	0·02
22	..	29·607	58·0	44·7	50·7	42·9	66·0	41·0	45·9	43·8	7·8	10·1	7·2	+11·0	WSW	W by N; WSW	10·0	0·0	3·7	325	0·00
23	New	29·843	51·6	36·6	47·0	38·2	69·0	31·0	45·7	43·8	8·8	14·7	6·0	+ 7·2	SW	WSW; S	1·0	0·0	0·1	170	0·00
24	..	29·520	47·4	37·7	42·3	40·6	48·7	33·0	45·8	43·8	1·7	3·4	1·7	+ 2·4	S	N; ENE	1·0	0·0	0·1	30	0·25
25	In Equator	29·308	50·0	36·7	43·6	39·5	57·0	34·8	45·3	44·1	4·1	6·8	2·6	+ 3·8	SSE; NNW	SW; SSE	2·0	0·0	0·1	120	0·20
26	..	29·528	47·1	34·4	40·5	32·3	61·0	23·0	45·1	43·6	8·2	13·6	2·6	+ 0·8	NNE	N	2·5	0·0	0·2	65	0·40
27	..	29·924	48·2	26·8	38·5	30·3	63·8	26·0	44·7	43·1	8·2	13·6	3·6	— 1·1	N	SE	0·0	0·0	0·0	150	0·00
28	..	29·329	46·5	31·3	41·4	39·5	49·0	31·8	43·8	42·4	1·9	5·5	0·5	+ 1·9	SW	SW	22·0	0·0	5·0	..	0·78

MONTH and DAY, 1849.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Jan. 1	0	0	10, ci.-s, li.-cl	10, ci.-s, li.-cl : 0
2	0	0	0	0
3	0	0	5, ci.-s, sc	5, ci.-s, sc : 10, ci.-s, sc
4	0	0 : N, w	10, ci.-s, sc	10, fr.-r : 10, r, sl
5	s	s	10, ci.-s, sc, f	10, m.-r : 10, sn
6	: w :	0	10, ci.-s, sc	5, ci.-s, sc : v
7	0	m : 0	10, ci.-s, sc	10, ci.-s, sc : r
8	0	s : 0	10, ci.-s, sc, r	10, ci.-s, sc, r
9	0	s : 0	8, ci.-s, h	0 : 10 : r
10	0	0	10, ci.-s, sc, r	10, ci.-s, sc : 9, ci.-s, sc
11	0	0	10, ci.-s, sc, w	10, ci.-s, sc, w
12	0 : s	s : 0	3, ci.-s, sc	10, ci.-s, sc : li.-sh.-r
13	0	0	10, ci.-s, sc, w, r	10, ci.-s, sc,
14	0	0	10, ci.-s, sc	10 : 0
15	0	0 : 0 : m	8, ci.-s	8 : 8 : 0
16	0	0	10, ci.-s, sc : 5, ci.-s, sc	10, ci.-s, sc, r : r
17	0	0	10, ci.-s, sc, m.-r	10, ci.-s, sc, m.-r : 0
18	0	0	10, ci.-s, sc	10, ci.-s, sc : 7, ci.-s, sc : 10, ci.-s, sc
19	0	0	8, ci.-s, li.-cl, sc	8, ci.-s, li.-cl, sc : 10, ci.-s, li.-cl, sc
20	0	v	8, ci.-s, sc	8, ci.-s, sc
21	0	0	10, ci.-s, sc	10, ci.-s, sc
22	0 : s, P N, sps, g.cur	0	5, ci.-s, sc : 5, fr.-sqs, h.-r	5, ci.-s, sc
23	0	0	5	5
24	0	0 : s	10, ci.-s, sc	10, ci.-s, sc
25	0	0	8, ci.-s, sc	8, ci.-s, sc
26	0	0 : s	10, ci.-s, sc	5, ci.-s, sc : 0
27	s	s : s, N	7, ci.-s, sc, so.-ha	10, ci.-s, sc, r
28	0	0	5, cu.-s, sc, r	5, cu, ci.-s, sc : 0 : 10, cu, ci.-s, sc, r
29	0	0	10	7
30	0	0	10, ci.-s, sc	10, ci.-s, sc, h.-r, sn
31	v	v	0	0 ; 3, ci.-s : 3, h
Feb. 1	s	s : N, m	0	10, ci.-s, sc : 10, m.-r
2	0	0	10, ci.-s, sc, m.-r	10, ci.-s, sc, m.-r
3	0	0 : m	10, ci.-s, sc, r	10, ci.-s, sc, r : 10, ci.-s, sc
4	0	0 : m	10, ci.-s, sc, sl.-r	10, ci.-s, sc
5	0	m : 0	8, ci.-s, sc	10, ci.-s, sc
6	0	0	10, ci.-s, sc	10, ci.-s, sc
7	0	m : 0	10, ci.-s, sc, sl.-r	10, ci.-s, sc
8	0 : w	0	5, ci.-s, sc	5, ci.-s, sc, h.-r : 0
9	0	m : m : 0	0 : 8, ci.-s, sc	10, ci.-s, sc
10	0	0	8	10 : 0
11	s	s	0, h	0, h
12	s	s	0, f	0, f
13	s	s	0	7, ci.-s, sc : 10, ci.-s, sc
14	s	s	0	0 : 10, ci.-s, sc : 0
15	0	0	0 : 7, ci.-s, sc	0
16	s	s	10	10, so.-ha : 0
17	0	0	0	0
18	0	0	10, ci.-s, sc, th.-f	10, ci.-s, sc, th.-f
19	0	0	10, ci.-s, sc	10, ci.-s, sc
20	0	0	7, ci.-s, sc : 10, ci.-s, sc, r	10, ci.-s, sc, r
21	0	0	8, ci.-s, sc	8, ci.-s, sc : 8, ci.-s, sc, r
22	0	0	0 : 5, ci.-s, sc	7, ci.-s, sc : 0, a
23	0	0	0 : 3, ci.-s, sc	7, ci.-s, sc 7, ci.-s, sc 3, ci.-s, sc
24	s, N	s, N	10, ci.-s, sc, h.-r	10, ci.-s, sc, h.-r
25	s	s, N : 0 : s	10, ci.-s, sc, h.-s, h.-l	10, ci.-s, sc : v : 10, ci.-s, sc
26	0 : 0 : s	0	10, r, cu.-s, ci.-s, sc : 5, r, cu, cu.-s, sc	5, cu, ci.-s, sc : 5, cu, ci.-s, sc : 0
27	0	s	0	5, cu, ci.-s, sc : 5, cu, ci.-s, sc : 0, a
28	0	0	10	10

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer, corrected and reduced to 32° Fahrenheit).	Readings of Thermometers.											Wind as deduced from Anemometers.					Rain in Inches read at 9h P.M.
			Dry.			Dew Point.	In the Sun, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	On the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A.M. next morning.	Difference between the Dew Point Temperature and Air Temperature.		Difference between the Mean Temperature of the Day and the Natural Temperature of the same day on an Average of 7 years.	Osler's.				Whewell's.	
														General Direction.		Pressure in lbs on the square foot			
			Highest.	Lowest.	Mean Daily Value.	Mean Daily Value.			Highest.	Lowest.	Mean Daily Value.	Greatest.	Least.			Greatest.	Least.	Mean of 24 Obs.	Amount of Horizontal Movement of the Air on each Day.
			A.M.	P.M.										A.M.	P.M.				
		in.	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Mar. 1	Perigee First Quarter	29·616	51·8	31·8	41·1	31·0	56·0	35·5	42·8	41·1	10·1	14·3	8·2	+ 1·7	SSW	NW; WSW	8·0	0·0	2·4	..	0·10
2	..	30·079	52·6	39·8	44·7	36·6	65·0	36·0	42·8	41·1	8·1	12·8	6·2	+ 5·4	SW	SSW	3·0	0·0	0·6	..	0·00
3	..	30·288	55·5	40·8	46·9	40·5	72·0	36·0	43·8	41·8	6·4	9·4	5·2	+ 7·7	WSW; W by S	SW	0·0	0·0	0·0	..	0·00
4	..	30·315	60·0	43·4	50·4	39·7	74·0	43·0	45·5	42·8	10·7	16·0	4·6	+11·4	SW	SW	0·0	0·0	0·0	..	0·00
5	..	30·378	55·5	40·2	47·1	42·9	70·5	32·0	46·3	43·6	4·2	8·2	2·8	+ 8·3	SSW	WSW; N by W	1·0	0·0	0·1	..	0·00
6	..	30·385	56·8	35·7	46·8	37·8	70·0	26·5	46·8	45·1	9·0	14·6	4·4	+ 8·0	N by W; WNW	SW	2·5	0·0	0·6	..	0·00
7	..	29·832	54·3	39·1	47·2	42·8	61·0	37·7	47·5	45·6	4·4	8·2	1·8	+ 8·4	WSW	WSW	8·0	0·0	3·2	..	0·05
8	..	29·707	49·3	33·0	39·5	32·3	62·2	37·0	47·3	43·1	7·2	15·6	0·8	+ 0·4	W	NW; N	3·0	0·0	0·5	..	0·05
9	Full	29·807	42·0	27·9	34·1	29·2	52·9	21·0	46·7	44·6	4·9	11·0	4·9	— 5·4	NW; WSW	NW; W by S	2·0	0·0	0·4	..	0·02
10	In Equator	30·247	43·8	31·4	36·1	29·1	61·0	25·0	45·5	44·6	7·0	12·7	1·5	— 3·9	N	SW; WSW	2·5	0·0	1·0	..	0·00
11	..	30·270	43·7	29·8	37·2	26·2	56·6	32·0	44·1	42·6	11·0	15·1	9·1	— 3·3	Calm	SW	1·5	0·0	0·3	..	0·00
12	..	30·019	52·1	38·6	47·5	42·0	58·0	43·0	43·7	42·6	5·5	9·2	3·5	+ 6·4	SW	NW	3·0	0·0	0·6	..	0·00
13	..	29·998	59·3	40·9	47·8	40·9	73·0	37·7	44·1	43·6	7·9	12·5	6·5	+ 7·3	SW; NNW	N	2·8	0·0	0·2	..	0·00
14	..	30 146	48·5	39·4	42·9	38·4	65·0	39·0	45·7	43·1	4·5	7·4	4·8	+ 0·9	N	NW	0·0	0·0	0·0	..	0·00
15	Apogee	30·174	52·9	45·9	48·2	43·1	59·0	44·0	46·2	44·6	5·1	8·0	5·1	+ 5·9	NW	Calm	0·0	0·0	0·0	..	0·00
16	..	30·203	51·3	46·5	48·2	43·6	60·0	28·0	46·7	45·6	4·6	7·2	4·4	+ 5·6	Calm	Calm	0·0	0·0	0·0	..	0·00
17	Last Quarter Greatest Dec. S	30·157	60·7	36·6	47·8	41·0	77·7	30·0	47·1	46·1	6·8	12·2	3·9	+ 5·0	Calm	Calm	0·0	0·0	0·0	..	0·00
18	..	29·990	46·6	34·9	40·3	38·1	53·6	39·2	48·1	46·1	2·2	2·3	0·5	— 2·8	Calm	Calm	0·0	0·0	0·0	..	0·00
19	..	29·921	52·4	38·3	42·3	39·9	71·0	29·8	48·1	46·6	2·4	9·9	0·7	— 1·0	Calm	E	0·0	0·0	0·0	..	0·00
20	..	30·071	50·6	35·9	41·4	34·9	75·1	25·0	47·9	46·6	6·5	14·1	3·3	— 2·1	E; N	N	0·0	0·0	0·0	..	0·00
21	..	30·053	48·8	34·9	41·8	36·3	57·5	29·0	47·8	46·6	5·5	10·1	2·8	— 1·8	N; SSE	SSE; ESE	0·0	0·0	0·0	..	0·00
22	..	30·003	41·2	34·7	37·7	32·9	43·5	36·5	47·3	45·8	4·8	8·2	5·5	— 6·0	ESE; NE	N by E	0·0	0·0	0·0	..	0·00
23	..	29·877	48·5	38·4	40·4	35·4	51·5	24·0	46·7	44·8	5·0	8·3	4·0	— 3·5	N	NNE	0·0	0·0	0·0	..	0·00
24	In Equator New	29·829	45·5	29·0	36·2	26·8	54·5	24·0	45·8	43·6	9·4	15·4	6·9	— 7·9	N	N; NNW	3·0	0·0	0·8	..	0·00
25	..	29·777	38·1	27·7	33·4	29·1	44·5	33·0	44·7	42·6	4·3	6·8	3·6	—10·9	NNW	N	2·8	0·0	0·4	..	0·00
26	..	29·752	42·1	34·0	36·8	32·6	49·5	30·6	44·3	42·6	4·2	7·9	2·8	— 7·7	N by W	N by E	0·0	0·0	0·0	..	0·00
27	Perigee	29·328	45·0	34·2	38·9	25·6	55·8	33·8	44·1	42·1	13·3	10·3	3·8	— 5·7	N	N by E	0·0	0·0	0·0	..	0·00
28	..	29·197	44·2	34·9	39·1	34·0	55·0	36·0	43·8	42·1	5·1	8·5	4·0	— 5·7	N by E	NE	0·0	0·0	0·0	..	0·16
29	..	29·234	49·4	37·9	41·8	38·2	61·0	30·0	43·8	42·6	3·6	8·1	2·3	— 3·1	ENE	ENE	0·0	0·0	0·0	..	0·06
30	Greatest Declination N.	29 223	51·6	36·6	43·6	36·0	64·0	33·0	44·3	42·8	7·6	9·2	5·1	— 1·4	NE	SSE	0·0	0·0	0·0	..	0·01
31	First Qr.	29·476	58·6	36·4	48·0	38·6	74·5	34·5	45·8	42·6	9·4	15·0	2·4	+ 2·9	ESE	SSE	3·5	0·0	0·7	..	0·02
Apr. 1	..	29·375	55·7	42·4	47·1	41·6	69·5	37·8	46·8	43·0	5·5	8·6	6·2	+ 2·0	SSE	SSE	2·5	0·0	0·2	..	0·31
2	..	29·298	53·9	41·6	43·4	38·4	68·5	24·8	48·0	43·8	5·0	10·2	2·2	— 1·7	SSE	SSE	0·0	0·0	0·0	..	0·15
3	..	29·468	53·0	34·0	42·1	39·5	60·0	26·0	48·2	44·2	2·6	13·0	1·7	— 3·0	SSW	SSW	0·0	0·0	0·0	..	0·00
4	..	29·445	53·5	32·4	44·2	35·2	70·0	41·0	48·5	45·0	9·0	14·4	5·1	— 1·0	SW	ESE	2·5	0·0	0·2	..	0·00
5	..	29·337	58·3	43·9	47·4	43·9	80·8	26·0	48·8	45·8	3·5	9·6	1·3	+ 2·2	ESE	SE	0·0	0·0	0·0	..	0·06
6	In Equator	29·409	59·5	32·2	49·1	34·6	83·0	35·5	49·0	46·2	14·5	17·3	10·8	+ 4·0	ESE	SSE	0·0	0·0	0·0	..	0·00
7	Full	29·247	56·0	39·5	46·3	43·2	70·5	30·0	49·6	46·5	3·1	8·2	4·6	+ 1·4	ESE	SE	0·0	0·0	0·0	..	0·00
8	..	29·246	58·3	39·5	47·1	43·7	70·5	30·0	49·6	46·8	3·4	7·0	4·6	+ 2·4	ESE	SSE	0·0	0·0	0·0	..	0·10
9	..	29·352	54·7	36·8	44·1	42·4	67·8	30·0	49·8	47·0	1·7	7·8	1·4	— 0·4	SSE; ESE	NNE	0·0	0·0	0·0	..	0·02
10	..	29·453	50·7	42·1	43·1	41·5	56·5	40·0	49·5	46·8	1·6	6·1	1·1	— 1·2	N	N by E	3·5	0·0	0·5	..	0·05
11	..	29·611	45·8	36·5	38·2	36·0	59·3	32·0	48·6	45·5	2·2	6·1	3·8	— 6·0	N	N	2·5	0·0	0·9	..	0·01
12	Apogee	29·621	45·6	32·8	38·3	34·5	57·8	25·5	48·2	45·2	3·8	11·5	2·9	— 5·9	N	WSW; SW	0·0	0·0	0·0	..	0·01
13	..	29·128	46·7	37·7	40·1	38·9	57·0	35·0	47·8	45·0	1·2	6·7	2·0	— 4·4	SSW; SSE	SSE; SW	4·0	0·0	0·5	..	0·15
14	Greatest Declination S.	29·260	52·7	31·7	42·5	34·9	71·0	26·5	47·6	45·0	7·6	12·4	3·1	— 2·2	SW; E	SE; E by S	0·0	0·0	0·0	..	0·00
15	Last Qr.	29·532	44·7	34·1	39·9	37·5	49·2	30·0	47·7	46·4	2·4	6·7	1·5	— 5·3	NE	N by W	0·1	0·0	0·0	..	0·11
16	..	29·637	49·2	35·6	41·4	34·7	71·0	29·0	47·1	45·6	6·7	10·8	8·5	— 4·2	N	SW	0·0	0·0	0·0	..	0·00
17	..	29·612	44·3	27·7	34·8	24·7	66·3	23·8	46·7	44·6	10·1	17·3	8·0	—11·2	N	NW	2·8	0·0	0·5	..	0·00
18	..	29·681	46·8	26·8	37·6	29·6	64·8	32·0	45·7	44·1	8·0	14·5	3·6	— 8·8	NNW	SW	8·0	0·0	1·0	..	0·05
19	..	29·181	36·3	31·9	32·4	30·9	39·0	28·8	44·8	42·6	1·5	4·9	1·0	—14·5	S by E; NE	NE	4·8	0·0	1·8	..	0·70
20	..	29·496	47·5	32·1	37·0	34·5	62·0	19·0	43·9	41·1	2·5	8·7	4·5	—10·4	N by W	N by W	4·0	0·0	0·6	..	0·04
21	In Equator	29·741	46·2	28·6	36·8	29·4	62·0	19·0	43·5	41·1	7·4	11·5	3·6	—11·1	NNW	WSW	0·0	0·0	0·0	..	0·00
22	New	29·723	47·9	31·6	41·4	37·3	57·0	36·4	43·5	40·0	4·1	3·4	2·5	— 7·0	WSW; S	S	0·0	0·0	0·0	40	0·05
23	..	29·445	51·3	41·4	44·7	43·4	59·8	29·0	44·2	41·0	1·3	4·4	2·6	— 4·0	S by W	N by E; NW	0·3	0·0	0·0	80	0·26
24	Perigee	29·118	52·3	37·9	43·0	37·9	59·8	34·0	45·8	41·5	5·1	9·2	2·5	— 6·3	NNE	SW; SSE	0·2	0·0	0·0	70	0·00
25	..	29·607	56·9	44·4	49·1	42·7	68·2	39·0	47·5	43·0	6·4	11·6	2·4	— 0·5	SSE	NE; E; SE	0·0	0·0	0·0	30	0·01
26	..	29·643	61·5	43·8	48·0	41·9	71·0	30·0	50·0	44·0	6·1	11·4	1·4	— 2·0	SE; S	W	0·0	0·0	0·0	65	0·05
27	Greatest Declination N.	29·628	60·2	36·8	48·1	36·9	68·6	36·2	52·0	46·0	11·2	15·4	4·6	— 2·3	SW	SSW; S	2·0	0·0	0·4	105	0·01
28	..	29·470	57·8	41·8	47·1	42·5	77·9	30·0	53·0	48·0	4·6	10·0	5·0	— 3·8	SW	SW	3·0	0·0	0·1	50	0·08
29	First Qr.	30·102	62·5	39·9	51·9	42·9	75·0	41·0	55·4	49·5	9·0	13·0	9·4	+ 0·6	SW	S	0·0	0·0	0·0	30	0·00

MONTH and DAY, 1849.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Mar. 1	0	0	10, ci.-s, sc	0 : 0 : 10, ci.-s, sc
2	0	0	5, ci.-s, sc	5, ci.-s, sc
3	s	s	10	10
4	m	m	5 : 0	3, sc : 0 : 0
5	m	m	10, ci.-s, sc	10, ci.-s, sc
6	m	m	0 : 2, ci.-s, sc	10, ci.-s, sc : 3, ci.-s, sc : 9, ci.-s, sc, lu.-ha
7	0	0	7, ci.-s, sc : 7, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, sl.-r
8	m	m	0	10, ci.-s, sc, hl, r, sn : 5, cl.-s, sc, hl, r, sn
9	0	0	2 : 2	7 : 5 : 8, sn
10	m	m	3, ci.-s, sc : 3, ci.-s, sc	10, ci -s, sc : 3, ci.-s, sc : 3, ci.-s, sc
11	0	m : 0	10, ci.-s, sc	10, ci.-s, sc : 8, ci.-s, s : 10, ci.-s, sc
12	0	w : 0	10, ci.-s, sc	10, ci.-s, sc
13	0	0	10, ci.-s, sc	8, ci.-s, sc : 10, ci.-s, sc
14	0	s	10, ci.-s, sc	10, ci.-s, sc
15	s	s	10, ci.-s, sc	10, ci.-s, sc
16	m	m	10, ci.-s, sc	10, ci.-s, sc
17	0	0	2, h	2, h
18	0	0	10, ci.-s, sc, th.-f	10, ci.-s, sc, th.-f
19	0	0	10	10 : 10 : 8
20	0	0	10, cu.-s, ci.-s, sc	8, cu.-s, ci.-s, sc : 0
21	0	0	10, ci.-s, sc	10, ci. s, sc : 0
22	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, l
23	0	0 : w	10, ci.-s, sc	10, ci.-s, sc
24	0	0	10, ci.-s, cu.-s, cu, sc, sn, h	10, ci.-s, cu.-s, cu, sc, m, h : 0
25			10, ci.-s, sc, sn	10, ci.-s, sc, sn
26			10, ci.-s, sc	10, ci.-s, sc
27			10, ci.-s, sc	10, ci.-s, sc
28			10, ci.-s, sc, hl, r	10, ci.-s, sc
29			10, cu.-s, ci.-s, sc, r	0
30			10, ci.-s, sc	10, ci.-s, sc, r : 10, ci.-s, sc
31			5, cu, cu.-s, sc	5, cu, cu.-s, sc, r : 5, cu, cu.-s, sc
Apr. 1			8, ci.-s, sc	8, ci.-s, sc : 8, ci.-s, sc, lt.-sh
2			8	8, r
3			10, ci.-s, sc	10, ci.-s, sc
4			7, cu, cu.-s, sc	7, cu, cu.-s, sc : 10, cu, cu.-s, sc
5			8, m.-r	8 : 0
6			0	0 : 7
7			8	0
8			10, ci.-s, sc, h.-r : 10, ci.-s, sc	8, ci.-s, sc, : 0
9			10, ci.-s, sc	10, ci.-s, sc, r
10			9, ci.-s, sc, h.-r : 10, ci.-s, sc	9, ci.-s, sc, h.-r : 9, ci.-s, sc
11			8, ci.-s, sc, r	8, ci.-s, sc, r : 0
12	0	0	7, ci.-s, sc, r	7, ci.-s, sc, r
13	s, N	s, N	10, ci.-s, sc, h.-shs	10, ci.-s, sc, h.-shs
14	m	m	5, ci.-s, cu, li.-cls, sc	5, ci.-s, cu, li.-cls, sc
15	v	v	10, ci.-s, sc, r	10, ci.-s, sc, r : 10, ci.-s, sc : 0
16	m	m : 0	10, ci.-s, sc	10, ci.-s, sc
17	0	0	9	9 : 10, sn : 0 : 10, sn
18	0	0	8, cu -s, ci.-s, sc, sn	8, cu.-s, ci.-s, sc, r, sn
19	s, N, sps, g. cur	s, N, sps, g. cur	10, ci.-s, sc, sn, r	10, ci.-s, sc, sn, r : 10, ci.-s, sc
20	s, sps	s	7, fr.-shs, hl, sl, r	7, fr.-shs, hl, sl, r : 0
21	s	s	10	10 : 0
22	0	0	10, ci.-s, sc, m.-r	10, ci.-s, sc
23	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r : 10, ci.-s, sc, fr.-shs
24	0	0	10, ci.-s, sc	10, ci.-s, sc
25	0	0 : w	10, ci.-s : 10, ci.-s, r	10, ci.-s
26	0	0	10, cu, ci.-s, sc, r	7, cu, ci.-s, sc, r : 0
27	m	m	7, cu, ci.-s, sc	7, cu, ci.-s, sc : 10, cu, ci.-s, h.-sh.-r
28	0	P, N, g. cur, sps	7, cu, cu.-s, sc, fr.-h-shs	7,cu,cu.-s,sc,fr.-h.-shs,t : 7,cu,cu.-s,sc,fr.-h.-shs
29	0	0 : s	0	10, ci.-s

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 7 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 obs.	Wheewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Apr. 30	..	30·140	64·3	45·3	53·6	43·0	85·7	28·0	57·4	50·8	10·6	14·6	3·0	+ 1·8	ENE	NE	0·2	0·0	0·0	90	0·00
May 1	..	29·920	59·0	38·0	49·4	41·3	73·8	35·0	57·8	51·3	8·1	12·8	4.6	— 2·8	N	NNE	0·3	0·0	0·0	80	0·00
2	..	29·785	65·7	43·3	53·2	50·0	76·8	42·0	57·6	52·3	3·2	6·8	2·0	+ 0·8	N	NE	3·5	0·0	0·4	80	0·03
3	In Equator.	29·701	70·1	47·6	57·7	51·6	90·5	35·8	58·4	53·3	6·1	8·8	2·9	+ 5·2	NNE	NE	0·1	0·0	0·0	70	0·14
4	..	29·715	72·8	45·4	61·3	51·0	94·0	40·0	59·6	54·5	10·3	14·3	4·9	+ 8·9	NE	ENE	0·0	0·0	0·0	70	0·00
5	..	29·653	75·0	45·4	59·6	49·0	96·5	38·0	60·2	55·5	10·6	14·6	4·0	+ 7·6	ENE	NE	3·0	0·0	0·3	95	0·00
6	..	29·683	63·0	43·6	50·7	44·2	85·7	42·8	59·8	55·3	6·5	8·2	5·7	— 0·9	N by E	NNE	3·0	0·0	0·4	130	0·00
7	Full	29·804	55·8	42·7	45·3	39·3	69·3	28·0	58·2	53·5	6·0	9·8	3·7	— 6·4	NE	NNE	4·0	0·0	0·5	220	0·00
8	..	29·880	52·8	36·8	43·8	34·0	73·0	32·0	57·0	52·1	9·8	13·4	6·0	— 8·2	N by E	N	3·7	0·0	0·3	100	0·00
9	Apogee	29·848	50·7	39·4	43·0	37·0	64·8	38·0	56·4	51·3	6·0	10·8	1·7	— 9·2	N	N by E	1·8	0·0	0·0	15	0·02
10	..	29·762	48·6	40·1	42·2	37·9	59·0	41·0	55·6	50·8	4·3	8·1	4·4	—10·2	NW	NNW	0·0	0·0	0·0	80	0·04
11	Greatest Declination S.	29·787	56·6	42·3	46·3	41·5	71·8	26·7	54·8	50·5	4·8	8·6	1·0	— 6·3	N	N by W	2·3	0·0	0·1	80	0·00
12	..	30·084	58·8	36·4	47·2	40·4	74·5	26·7	54·8	50·5	6·8	11·6	6·5	— 5·4	N by W	E by S; E by N	0·0	0·0	0·0	80	0·00
13	..	29·817	63·9	43·3	54·6	47·2	76·8	38·0	53·8	52·4	7·4	10·0	3·6	+ 2·0	ESE and SSW	WSW	1·0	0·0	0·0	85	0·00
14	..	29·428	64·4	45·8	54·5	47·5	84·8	40·0	55·3	52·8	7·0	12·0	4·0	+ 1·9	SW	SW	1·5	0·0	0·4	60	0·07
15	Last Qr.	29·417	63·2	47·6	55·3	43·7	92·3	45·8	56·5	53·8	11·6	15·4	8·2	+ 2·8	SW; WSW	SSW	2·5	0·0	0·2	150	0·00
16	..	29·306	64·0	48·8	55·8	51·6	81·8	43·8	57·8	54·4	4·2	9·4	2·4	+ 3·4	SSW; SSE	SW; S	3·0	0·0	0·8	155	0·47
17	..	29·207	62·2	50·6	53·9	49·5	73·0	43·0	58·8	55·1	4·4	9·9	3·2	+ 1·9	SSW	SW	12·0	0·0	3·3	250	0·04
18	In Equator.	29·450	64·6	50·4	55·7	49·0	75·4	43·0	59·1	55·8	6·7	11·1	4·9	+ 3·9	SW	WSW	4·5	0·0	1·3	155	0·04
19	..	29·859	66·0	48·4	54·2	45·4	81·7	43·6	58·9	56·1	8·8	13·6	5·0	+ 2·1	WNW	WSW; SW	1·5	0·0	0·1	80	0·05
20	..	29·652	56·2	50·6	51·9	51·3	58·0	42·7	58·9	56·4	0·6	1·6	0·6	— 0·9	SSE	SSW	0·3	0·0	0·0	55	0·90
21	..	29·704	65·4	51·6	57·7	53·7	89·0	40·5	58·8	56·8	4·0	9·1	1·9	+ 4·0	SE	ENE; SE	0·2	0·0	0·0	85	0·12
22	New Perigee	29·673	63·8	48·6	52·8	49·6	79·5	41·0	58·5	56·8	3·2	9·4	2·3	— 1·7	S	SSW	0·1	0·0	0·0	75	0·34
23	..	29·953	63·6	53·6	57·1	47·4	87·0	38·0	59·8	57·6	9·7	12·8	6·2	+ 1·8	WSW	NW; Calm	3·0	0·0	0·5	145	0·00
24	Greatest Declination N.	30·014	68·6	45·4	59·6	49·0	97·2	47·0	61·3	58·6	10·6	13·5	4·4	+ 3·8	S	S by W	0·0	0·0	0·0	45	0·01
25	..	29·832	70·6	54·0	60·9	50·3	79·5	44·0	62·7	59·6	10·6	15·0	7·7	+ 4·7	SSE	Calm	0·0	0·0	0·0	40	0·00
26	..	29·895	66·0	52·3	58·4	46·8	92·0	44·0	63·3	60·6	11·6	13·8	8·7	+ 1·9	Calm	SSW	0·0	0·0	0·0	65	0·00
27	..	29·942	74·4	48·4	62·4	49·5	97·8	44·0	64·8	61·6	12·9	19·5	8·7	— 5·8	SW	NNE; NE	0·0	0·0	0·0	55	0·00
28	First Qr.	30·051	57·2	51·1	52·6	51·6	60·0	42·0	63·9	61·6	1·0	1·9	0·0	— 4·3	N	N	0·0	0·0	0·0	45	1·15
29	..	30·060	67·8	51·3	58·4	51·7	91·0	41·0	63·5	61·6	6·7	11·8	4·8	+ 1·0	N; NNW	NNE; E	0·0	0·0	0·0	10	0·45
30	..	30·022	72·4	49·8	61·9	51·5	..	46·0	63·8	62·4	10·4	13·1	6·8	+ 4·0	SSE; SW	WSW; N	0·0	0·0	0·0	40	0·00
31	In Equator.	29·845	74·9	54·6	64·3	59·7	..	41·0	65·3	63·1	4·6	7·0	3·9	+ 5·9	SE	SSW	0·0	0·0	0·0	110	0·00
June 1	..	29·963	68·6	50·6	59·9	54·1	97·0	41·0	65·3	63·1	5·8	11·2	4·7	+ 1·1	SW	WSW	0·0	0·0	0·0	10	0·00
2	..	29·962	70·4	52·3	63·3	53·9	97·5	..	65·5	63·6	9·4	13·1	8·3	+ 3·9	Calm	N; NNE	0·0	0·0	0·0	45	0·00
3	..	30·090	77·2	48·5	62·2	51·5	97·3	43·8	65·9	64·1	10·7	15·3	4·8	+ 2·7	NE	NE	0·8	0·0	0·1	45	0·00
4	..	29·933	74·3	49·1	63·1	57·5	94·7	48·0	66·5	64·6	5·6	12·8	3·1	+ 3·8	ENE	ENE	0·0	0·0	0·0	60	0·00
5	Full	29·745	80·7	56·6	68·6	61·1	..	53·0	67·5	65·6	7·5	13·4	3·4	+ 9·5	NE	N by W	0·0	0·0	0·0	40	0·01
6	Apogee	30·002	63·2	55·6	56·8	51·5	..	47·8	67·3	65·1	5·3	8·5	2·1	— 2·1	N	ENE	0·0	0·0	0·0	95	0·11
7	Greatest Declination S.	29·997	68·2	50·5	58·3	48·0	..	47·0	66·6	65·1	10·3	16·8	6·8	— 0·4	NE	ENE	0·5	0·0	0·0	85	0·01
8	..	29·845	67·7	50·6	57·3	47·0	..	36·0	66·5	64·6	10·3	16·0	6·4	— 1·3	ENE	NE	0·2	0·0	0·0	70	0·00
9	..	29·744	64·4	42·6	52·3	39·9	..	38·0	66·1	63·6	12·4	18·2	6·2	— 6·4	NNE	N by E	0·0	0·0	0·0	55	0·00
10	..	29·584	58·1	44·2	50·3	41·7	..	35·0	65·3	62·6	8·6	12·9	4·1	— 8·7	N	N	3·5	0·0	0·2	90	0·00
11	..	29·703	61·4	43·2	50·3	43·6	..	32·0	63·9	61·4	6·7	13·7	1·6	— 9·4	N	NNE	0·0	0·0	0·0	60	0·00
12	..	29·807	59·0	40·7	50·0	41·2	..	34·0	62·3	60·1	8·8	14·8	2·6	—10·7	S by E; W	WNW	0·0	0·0	0·0	40	0·01
13	Last Qr.	29·957	67·6	47·2	54·8	41·8	..	32·5	61·8	59·6	13·0	18·9	10·6	— 6·2	NW	E	0·0	0·0	0·0	35	0·00
14	In Equator.	30·009	67·1	38·6	54·2	38·2	..	33·5	62·8	60·1	16·0	24·5	4·4	— 6·9	E	ENE	0·0	0·0	0·0	30	0·00
15	..	29·739	69·3	43·1	57·3	49·1	..	41·0	62·8	60·6	8·2	13·6	4·2	— 3·9	ENE	ENE	1·4	0·0	0·0	55	0·00
16	..	29·650	69·6	48·4	57·6	51·9	88·2	40·0	62·3	60·6	5·7	12·8	5·2	— 3·6	NNE	N	1·0	0·0	0·0	140	0·00
17	..	29·847	68·2	48·2	54·9	46·9	92·4	42·8	62·3	60·6	8·0	12·2	3·3	— 6·1	N	N; ENE	0·5	0·0	0·0	10	0·00
18	..	29·916	70·3	42·8	58·5	41·2	98·0	44·0	62·7	61·1	17·3	21·0	10·8	— 2·3	E	S by W	0·5	0·0	0·0	120	0·00
19	..	29·726	63·2	46·7	54·5	45·5	75·7	35·5	62·3	60·8	9·0	15·0	4·9	— 6·2	S by W	SW	5·0	0·0	0·5	120	0·00
20	New Perigee	30·014	70·6	46·1	57·7	46·7	92·6	44·8	62·7	60·8	11·0	17·4	6·5	— 2·8	NW; NE	SSW	0·0	0·0	0·0	70	0·00
21	Greatest Declination N.	29·965	73·3	51·2	62·4	51·5	93·0	33·8	62·8	61·6	10·9	14·3	11·7	+ 1·9	SSW	WSW	2·8	0·0	0·2	120	0·00
22	..	29·996	71·1	45·8	59·2	46·1	95·2	43·0	64·3	62·1	13·1	18·0	8·7	— 1·2	N by W	SW	0·0	0·0	0·0	45	0·00
23	..	29·769	78·6	51·4	67·1	54·0	106·8	44·0	65·8	63·1	13·1	21·0	7·7	+ 6·8	S by W	W	0·0	0·0	0·0	20	0·00
24	..	29·791	73·9	50·3	60·7	48·1	100·2	40·5	67·3	64·1	12·6	19·5	4·0	+ 0·5	N	NE	0·0	0·0	0·0	10	0·00
25	..	29·817	71·0	48·5	61·2	48·6	93·8	45·8	68·3	64·6	12·6	17·7	10·4	+ 1·2	ESE	SE	0·0	0·0	0·0	70	0·00
26	..	29·833	75·6	55·3	65·0	52·4	100·7	45·0	68·3	65·1	12·6	19·4	8·8	+ 5·3	SSW	W	2·0	0·0	0·4	150	0·00
27	First Quarter In Equator	29·914	75·6	53·5	64·4	52·7	98·8	42·0	68·8	65·1	11·7	19·2	5·4	+ 4·9	WSW	WSW	1·7	0·0	0·0	65	0·00

MONTH and DAY, 1849.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Apr. 30	v	v	0	0
May 1	0	0 : s	10, ci.-s, sc	10, ci.-s, sc
2	0	0	10, ci.-s, sc : 10, ci.-s, sc, sl.-r	10, ci.-s, sc, t.-s : 10, ci.-s, sc, sl.-r
3	0	s : 0 : s	8	0 : 0, l
4	s : 0	s	0	0
5	0	s : 0	7, cu, cu.-s, sc	7, cu, cu.-s, sc, t : 0
6	0	0	10, cu, ci, sc : 8, cu, ci, sc	10, cu, ci, sc
7	0	0	10, ci.-s, sc	7, ci.-s, sc : 10, ci.-s, sc
8	0	0	5, ci.-s, sc	10, ci.-s, sc
9	0	0	10, ci.-s, sc	10, ci.-s, sc, r
10	0	0	10, ci.-s, sc	10, ci.-s, sc, r
11	0	0	10	10 : 0 : 10
12	0	0	8, ci.-s, li.-cls, sc	8, ci.-s, li.-cls, sc
13	0	0	8, ci.-s, sc	8, ci.-s, sc : 0
14	0	0	10, cu, ci.-s, sc : 7, cu, ci.-s,	7, cu, ci.-s, sc : 10, cu, ci.-s, sc
15	0	0	7, ci.-s, sc	7, ci.-s, sc : 0
16	0	0	10, ci.-s, sc, h.-r	9, ci.-s, sc : 10, ci.-s, sc, h.-r
17	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, fr.-shs
18	s N	s N	10, ci.-s, sc, li.-cls, h.-sh	7, ci.-s, sc, li.-cls : 10, ci.-s, sc, li.-cls
19	0	0	10, cu, ci.-s, sc	10, cu, ci.-s, sc
20	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r : 10, ci.-s, sc
21	0	0	10, ci.-s, sc, li.-cls	7, ci.-s, sc, li.-cls, sh
22	0	0	10, cu, ci.-s, sc, r	7, cu, ci.-s, sc, fr.-shs
23	0	0	5, cu, cu.-s, sc	5, cu, cu.-s, sc
24	s : 0 : 0	0	0 : 7, cu, cu.-s, sc	7, cu, cu.-s, sc
25	0	0	7, cu, cu.-s, li.-cls	7, cu, cu.-s, li.-cls : 10
26	0	0	8, sl.-r : 7	3 : 10
27	0	0	3, ci, li.-cls	3, ci, li.-cls
28	s N	s N	10, ci.-s, sc	10, ci.-s, sc, h.-r
29	0	0	10, cu, ci.-s, sc	7, cu, ci.-s, sc : 5, cu, ci.-s, sc : 0
30	0	0	0 : 5, ci.-s, sc	5, ci.-s, sc : 7, ci.-s, sc
31	0	0	10, ci.-s, sc	10, ci.-s, sc : 5, ci.-s, sc
June 1	m	m	6, ci.-s, sc	10, ci.-s, sc : 0
2	s	s	8, cu, li.-cls, ci.-s, sc	10, cu, li.-cls, ci.-s, sc
3	0	0	0	0
4	s	s : 0	7, cu, cu.-s, sc	7, cu, cu.-s, sc : 10, cu, cu.-s, sc
5	s	s, sps, g. cur : 0	0	5, cu, ci.-s, sc, t : 10, cu, ci.-s, sc, sl.-sh
6	0	0	10, ci.-s, sc	10, ci.-s, sc, r : 10, ci.-s, sc, r : 10, ci.-s, sc
7	0	0	8, cu, ci.-s, sc	10, cu, ci.-s, sc
8	v	v : 0	5, cu.-s, li.-cls, sc	10, cu.-s, li.-cls, sc
9	0	0	3, ci.-s, li.-cls	3, ci.-s, sc, li.-cls : 0
10	0	0	10, ci.-s, sc	10, ci.-s, sc : 0
11	0	0	10, ci.-s, sc	10, ci.-s, sc : 0
12	0	0	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc, fr.-shs
13	0	0 : 0 : s	5, cu, cu.-s, sc	5, cu, cu.-s, sc : 0
14	v	v	0	2, cu, li.-cls : 0
15	s	s	10, ci.-s, sc	10, ci.-s, sc
16	0	0	10, cu, cu.-s, ci.-s, sc	10, cu, cu.-s, ci.-s, sc : 5, cu, cu.-s, ci.-s, sc
17	0	0	8, cu, cu.-s, sc	0
18	0	0 : 0 : w	3, cu, li.-cls	3, cu, li.-cls
19	0	0	10, ci.-s, sc	10, ci.-s, sc : 5, ci.-s, sc
20	0	m : 0	5, ci, li.-cls	5, ci, li.-cls : 10, ci, li.-cls
21	0	0	9, cu, cu.-s, ci.-s, sc	9, cu, cu.-s, ci.-s, sc
22	0	v	5, cu, ci, sc	0
23	s	s	0	0
24	0 : m	0	0	0
25	0	sN, fr.-sps, g. cur: wP	10, ci.-s, sc	10, ci.-s, sc, sh : 5, ci.-s, sc
26	v	0 : v : v	7, cu, ci.-s, sc	7, cu, ci.-s, sc
27	v	v	10, cu, ci.-s, sc	5, cu, ci.-s, sc : 0

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
June 28	..	29·923	62·5	49·8	56·3	44·5	89·0	44·2	68·3	65·6	11·8	17·0	6·0	— 3·3	WSW	NNW	0·0	0·0	0·0	50	0·00
29	..	29·900	67·8	49·9	58·3	50·7	93·0	46·5	67·9	65·4	7·6	16·0	2·1	— 1·4	E	S by W	0·0	0·0	0·0	55	0·00
30	..	29·910	63·3	53·1	55·3	47·7	80·0	32·8	67·7	65·1	7·6	12·1	8·2	— 4·9	S by W; NE	N	4·0	0·0	0·5	115	0·10
July 1	..	29·899	75·0	39·5	60·9	47·4	97·0	32·8	66·7	65·1	13·5	17·0	6·8	+ 0·2	NNW; SW	SW	1·0	0·0	0·0	125	0·00
2	..	29·886	73·2	57·5	62·4	46·2	93·6	54·6	66·1	64·8	16·2	21·0	12·0	+ 1·1	NW	NW	2·0	0·0	0·2	110	0·00
3	Apogee	29·570	73·1	56·2	62·6	54·1	89·7	47·0	65·9	64·4	8·5	14·7	7·1	+ 1·0	SW	SW	6·0	0·0	0·5	205	0·00
4	Greatest Declination S.	29·573	66·3	54·5	58·6	46·6	84·0	53·8	65·5	63 6	12·0	16·0	6·2	— 3·2	WSW	W	0·0	0·0	0·0	..	0·00
5	Full	29·780	73·1	47·2	61·1	43·6	97·7	38·6	65·3	63·4	17·5	23·3	12·7	— 0·8	N by W	NW & W	0·0	0·0	0·0	..	0·00
6	..	29·974	74·3	49·8	62·7	47·6	95·2	42·2	65·7	63·6	15·1	21·8	9·9	+ 0·9	WSW	SSW	0·7	0·0	0·0	..	0·00
7	..	29·911	82·1	55·5	70·6	52·4	103·5	53·3	66·8	64·8	18·2	27·0	10·2	+ 9·2	S	SSW	0·0	0·0	0·0	..	0·00
8	..	29·972	84·1	59·0	71·4	59·1	109·0	46·3	68·7	65·6	12·3	17·1	11·6	+10·5	SW	W	0·0	0·0	0·0	..	0·00
9	..	30·125	79·0	56·3	67·5	49·9	99·8	40·0	69·8	66·6	17·6	27·0	7·2	+ 6·9	W	NNE	0·3	0·0	0·0	..	0·00
10	..	30·225	78·2	50·0	65·5	49·7	104·0	39·0	70·1	67·1	15·8	24·8	12·7	+ 4·8	NE	ENE	0·0	0·0	0·0	..	0·00
11	..	30·234	76·7	47·3	64·9	48·5	100·0	39·0	70·5	67·6	16·4	22·1	10·5	+ 3·9	E	ENE	0·5	0·0	0·0	..	0·00
12	In Equator	30·191	80·0	47·0	66·1	51·5	100·8	42·5	70·8	68·1	14·6	23·1	5·7	+ 4·8	ENE	NE	0·0	0·0	0·0	130	0·00
13	Last Qr.	30·101	81·3	51·6	67·3	54·2	101·8	40·7	69·9	68·1	13·1	22·4	6·5	+ 5·7	N E	ENE	0·0	0·0	0·0	105	0·00
14	..	30·056	82·5	48·6	65·2	52·9	98·0	48·0	70·5	68·4	12·3	21·5	3·8	+ 3·4	NNE	NNE	0·0	0·0	0·0	55	0·00
15	..	29·982	75·4	53·6	61·4	53·5	90·0	40·0	70·1	67·8	7·9	10·9	2·2	— 0·4	NNE	ENE	0·0	0·0	0·0	70	0·00
16	..	29·932	83·6	50·9	67·3	52·3	94·0	49·0	69·5	67·6	15·0	24·0	9·7	+ 5·8	NE	NNE; E; SE	0·0	0·0	0·0	85	0·00
17	..	29·687	71·6	56·4	62·6	54·9	93·0	42·0	69·3	67·1	7·7	18·8	1·8	+ 1·6	SSE	SW	0·0	0·0	0·0	105	0·03
18	Perigee Greatest Dec. N.	29·562	73·1	49·4	59·1	50·1	92·7	46·8	..	..	9·0	17·6	4·3	— 1·6	N; WSW	SW	4·0	0·0	0·2	165	0·19
19	New	29·463	67·8	51·6	56·9	47·2	88·0	42·0	..	..	9·7	16·3	2·8	— 3·6	WSW	SW	0·0	0·0	0·0	80	0·26
20	..	29·458	71·3	48·1	57·5	49·7	84·0	42·8	..	..	7·8	16·0	3·0	— 2·8	SW	W; NW; NE; SE	0·0	0·0	0·0	85	0·10
21	..	29·762	70·4	48·6	58·9	50·0	86·8	50·0	..	..	8·9	12·8	7·6	— 1·4	SW	WSW	0·0	0·0	0·0	115	0·01
22	..	29·878	72·4	47·8	61·3	49·6	93·8	53·5	..	..	11·7	17·3	3·8	+ 0·9	SW	SSW	0·0	0·0	0·0	110	0·00
23	..	29·559	67·6	54·8	57·0	52·4	80·0	46·3	..	..	4·6	9·7	3·6	— 3·6	S	SW	4·0	0·0	0·2	135	0·26
24	In Equator	29·342	67·6	50·8	55·3	52·7	78·7	41·8	..	..	2·6	6·8	3·2	— 5·6	SW	SW	3·8	0·0	0·1	120	0·75
25	..	29·330	66·6	47·6	57·5	51·8	83·2	46·0	..	..	5·7	11·4	2·7	— 3·8	SW	SW	1·9	0·0	0·1	150	0·55
26	..	29·454	73·1	51·6	57·6	54·2	93·5	43·8	..	..	3·4	9·0	1·3	— 3·9	SW	W	2·8	0·0	0·1	75	0·57
27	First Qr.	29·777	75·4	50·1	61·7	56·3	94·0	45·0	..	..	5·4	11·1	5·1	0·0	W	WSW	0·0	0·0	0·0	45	0·02
28	..	29·843	74·6	49·8	62·0	52·6	94·0	53·0	..	..	9·4	13·2	5·1	+ 0·3	WSW	SSW	1·0	0·0	0·0	85	0·00
29	..	29·671	65·5	56·4	58·9	51·5	..	50·0	..	..	4·4	4·6	4·2	— 2·8	SSW	SW	3·0	0·0	0·1	180	0·19
30	Apogee	29·534	73·9	52·6	61·4	51·0	93·2	46·8	..	..	10·4	13·5	7·4	— 0·2	WSW	SW	3·3	0·0	0·2	190	0·03
31	..	29·721	71·5	52·2	61·0	48·2	90·0	44·0	..	..	12·8	16·8	9·7	— 0·5	SW	W S W	2·7	0·0	0·1	140	0·00
Aug. 1	Greatest Declination S.	29·959	73·4	49·4	60·3	48·1	91·5	41·8	..	..	12·2	16·0	7·7	— 0·9	WSW	NW	0·0	0·0	0·0	85	0·00
2	..	29·965	74·5	50·2	62·5	53·5	93·0	55·0	..	..	9·0	14·4	2 6	+ 1·3	NNW	W	0·0	0·0	0·0	90	0·00
3	..	29·870	65·5	52·2	55·9	50·7	88·0	35·0	..	..	5·2	10·3	2·9	— 5·4	W & NNE	N	0·0	0·0	0·0	59	0·17
4	Full	29·836	71·4	43·2	56·5	43·5	94·0	38·0	..	..	13·0	18·3	5·4	— 5·1	NNW	NE	0·0	0·0	0·0	15	0·00
5	..	29·790	73·2	42·4	58·8	47·3	92·0	..	..	..	11·5	16·3	5·0	— 2·8	NE	ENE	0·0	0·0	0·0	35	0·00
6	..	29·933	77·5	45·4	62·3	47·6	93·8	40·0	63·0	62·4	14·7	18·8	12·5	+ 0·6	ENE	SW	0·0	0·0	0·0	40	0·00
7	..	29·896	81·9	47·1	67·7	55·5	100·0	57·0	63·2	62·9	12·2	18·0	4·3	+ 6·0	SE	S	0·0	0·0	0·0	50	0·00
8	In Equator	29·741	78 5	60·9	70·8	60·4	104·5	56·0	65·6	63 9	10·4	17·9	5·1	+ 9·2	SSE	SSW	0·0	0·0	0·0	75	0·24
9	..	29·574	82·5	56·0	66·6	60·8	..	52·8	66 3	64·4	5 8	8·9	5·8	+ 5·2	SSW	SW	0·0	0·0	0·0	80	0·00
10	..	29·684	81·7	58·4	67·4	58·9	103·0	55·0	67·3	64·9	8·5	14·3	5·6	+ 6 2	SW	SW	0·0	0·0	0·0	55	0·00
11	Last Qr.	29·743	78·5	60·0	68·9	55·6	99·0	52·0	68·0	65·1	13·3	18·8	7·6	+ 7·8	SW	SSW	1·8	0·0	0·1	85	0·00
12	..	29·611	73·2	61·4	65·5	57·2	..	53·0	68·3	65·4	8·3	11·3	4 5	+ 4·4	SSW	SSW	3·8	0·0	0·9	120	0·00
13	..	29·478	70·1	57·4	61·1	52·5	64·0	49·0	67·3	64·9	8·6	14·3	6·8	— 0·1	SW	SW	6·0	0·0	1·9	240	0·03
14	Greatest Declination N	29·602	71·7	54·9	61·1	50·5	78·0	..	66·8	65·1	10·6	15·7	4·5	— 0·2	WSW	SW	3·3	0·0	0·7	185	0·01
15	Perigee	29·775	73·7	53·2	61·2	50·2	80·0	48·0	65·8	63·4	11·0	16·8	4 9	— 0·3	SW	SSW	2·0	0·0	0·6	179	0·00
16	..	29·647	66·7	53·6	58·1	53·5	77·0	38·0	64·8	62·7	4·6	9·4	2·7	— 3·6	SSW	SW	2·0	0·0	0·3	140	0·12
17	..	29·762	71·7	46·1	57·5	47·8	86·8	37·0	64·0	61·9	9·7	15·2	5·0	— 4·3	WSW	SW	1·5	0·0	0·1	70	0·02
18	New	29·873	68·2	45·7	57·9	45·5	87·0	34·5	63·8	61·1	12·4	14·2	8·3	— 3·8	WSW	NW	0·3	0·0	0·0	75	0·01
19	..	30·100	72·5	54·6	60·2	49·0	..	46·6	63·3	60·4	11·2	14·7	6·7	— 1·4	NW	N	0·0	0·0	0·0	25	0·00
20	..	30·212	70·7	52·1	61·5	53·7	81·7	46·0	62·8	60·9	7·8	12·0	6·1	+ 0·3	NW	W	0·0	0·0	0·0	85	0·00
21	In Equator	30·161	77·5	54·2	64·1	54·6	86·0	56·7	63·3	61·4	9·5	14·3	7·3	+ 3·6	W	WSW	0·0	0·0	0·0	15	0·00
22	..	30·041	73·6	58·8	63·4	54·0	80·4	52·8	63·6	61·4	9·4	12·8	8 2	+ 3·7	WSW	WSW	0·0	0·0	0·0	45	0·00
23	..	30·014	71·7	56·9	62·2	55·4	77·0	50·0	63·4	61·7	6·8	11·2	4·1	+ 2·7	WSW	N	0·0	0·0	0·6	30	0·00
24	..	30·025	75·5	56·0	63·3	53·3	89·8	51·0	64·2	62·1	10·0	17·4	5·6	+ 3·5	NNE	E	0·0	0·0	0·0	40	0·01
25	First Qr.	29·982	78·7	55·0	65·9	55·5	..	50·0	64·8	62·7	10·4	15·8	8·3	+ 5·7	ESE	SW; NW	0·0	0·0	0·0	70	0·00

MONTH and DAY, 1849.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
June 28	0	s : 0	10, ci.-s, sc	10, ci.-s, sc
29	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, r
30	0	0	8, ci.-s, sc, r : 8, ci.-s, sc	8, ci.-s, sc : 0
July 1	0	0	0	0 : 10, ci.-s, sc
2	0	0	5, ci.-s, sc	5, ci.-s, sc
3	0	0	10, cu, cu.-s, ci.-s, sc, s, w	5, cu, cu.-s, ci.-s, sc, s, w : 5, cu, cu.-s, ci.-s, sc
4	0	0	10, ci.-s, sc	10, ci.-s, sc : 5, ci.-s, sc
5	0 : m : 0	0	5, cu, ci.-s, sc	5, cu, ci.-s, sc
6	0	m : 0 : 0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	2, cu.-s, h	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	7, cu, cu.-s, sc	7, cu, cu.-s, sc : 0 : 0
14	0	0	10, ci.-s : 5, ci.-s	5, ci.-s : 0 : 10
15	0	0	10, ci.-s, sc, sl.-sh	0
16	0	0	10, cu, ci.-s, sc : 5, cu, ci.-s, sc	5, cu, ci.-s, sc
17	0	0	10, ci.-s, sc	10, ci.-s, sc, fr.-shs
18	0	0	10, ci.-s, sc	10, ci.-s, sc, r : 5, ci.-s, sc
19	0	s, N, fr.-sps, g. cur	10, cu, ci.-s, sc	10, cu, ci.-s, sc, l, t, h.-r : 10, cu, ci.-s, sc
20	0	s, N, shs, g. cur : m	10, cu, ci.-s, sc	10, cu, ci.-s, sc, l, t, sl.-shs : 10, cu, ci.-s, sc
21	0	0	10, ci.-s, sc	10, ci.-s, sc
22	0	0	5, cu, ci.-s, sc	10, cu, ci.-s, sc
23	0	0	10, ci.-s, sc, fr.-shs	10, ci.-s, sc, fr.-shs : 0
24	s	0 : s, N	10, cu, cu.-s, ci.-s, sc, fr. h.-shs	10, cu, cu.-s, ci.-s, sc : 10, ci.-s, sc, h.-r
25	s, N	s, N	7, cu, sc, fr.-h.-shs	7, cu, sc, fr.-h.-shs
26	s, N, sps, g. cur	s, P, sps, g. cur; s, N, sps g. cur	10, cu, ci.-s, sc	10, cu, ci.-s sc, t.-s : 5, cu, ci.-s, sc
27	0	0	10, cu.-s, sc	10, cu.-s, sc, sh.-r : 10, cu.-s, sc, sh.-r
28	w	w	0	7, ci.-s, sc : 10, ci.-s, sc
29	v	v	10, ci.-s, sc	5, ci.-s, sc, h.-shs : 5, ci.-s, sc
30	0	w	5, ci.-cu, ci.-s, sc	7, ci.-cu ci.-sc : 3, shs.-r
31	v	v	10, ci.-s, sc	10, ci.-s, sc
Aug. 1	0	s	7, cu, ci.-cu, ci.-s, sc	7, cu, ci.-cu, ci.-s, sc
2	v	v	8, ci.-s, sc	8, ci.-s, sc : 8, ci.-s, sc, sh
3	0	s	10, ci.-s, sc, r : 10, ci.-s, sc	10, ci.-s, sc
4	v	v	7, cu, ci, sc	7, cu, ci, sc
5	0	0 : w	0 : 3	0
6	s	s	5, cu.-s, li.-cls, sc	5, cu.-s, li.-cls, sc : 0
7	s	s : 0	5, ci.-s, li.-cls, sc : 10, ci.-s, li.-cls, sc	7, ci.-s, li.-cls, sc, l
8	0	0	7, h.-r, ci.-s, sc	5, ci.-s, sc : 0
9	w	w	8, ci.-s, sc	8, ci.-s, sc
10	v	v	7, ci.-s, li.-cls, sc	7, ci.-s, li.-cls, sc
11	w	w	0	0 : 10, ci.-s, sc, l, h.-sh
12	0	0	0	0
13	0	0	7, cu, ci.-s, sc	5, cu, ci.-s, sc : 0, shs
14	0	0 : w	10, cu, ci.-s, sc	5, sh, cu, ci.-s, sc
15	0	0	10, ci.-s, sc	10, ci.-s, sc : 0
16	0	0	10, ci.-s, sc	10, ci.-s, sc, r : 0
17	0	s, N : s, P	7, cu, cu.-s, ci.-s, sc	7, sh, cu, cu.-s, ci.-s, sc
18	s	s	7, cu, ci.-s, sc	7, cu, ci.-s, sc : 0, l
19	0	0 : m	5, ci.-s, li.-cls, sc	0
20	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, l
21	0	s : 0	10, ci.-s, sc	10, ci.-s, sc
22	0	0 : m	10, ci.-s, sc	10, ci.-s, sc
23	s	s	10, ci.-s, sc	10, ci.-s, sc
24	0	v : 0	5, cu, ci, sc	5, cu, ci, sc : 10, cu, ci, sc, sl.-r
25	w	w	7	7

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 hrs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°	lbs.	lbs.	lbs.	miles.	in.
Aug. 26	..	29·927	80·0	56·1	66·7	56·6	..	49·0	65·2	62·7	10·1	12·3	7·2	+ 6·4	NW	WSW	0·1	0·0	0·0	125	0·00
27	Apogee	29·841	68·8	57·4	60·2	50·0	..	48·0	65·6	62·4	10·2	17·6	10·8	— 0·3	W & NNW	N	0·2	0·0	0·0	95	0·00
28	Greatest Declination S.	29·830	75·0	53·9	63·3	51·4	80·0	53·0	65·3	61·9	11·9	17·4	3·2	+ 2·7	NW	WSW	0·1	0·0	0·0	95	0·00
29	..	29·767	73·2	59·1	64·6	58·8	..	52·5	65·4	62·9	5·8	9·5	2·9	+ 4·0	WSW	NNW	0·0	0·0	0·0	20	0·00
30	..	29·702	75·0	60·2	66·2	60·0	78·0	56·8	65·6	63·4	6·2	13·1	3·0	+ 5·7	ESE	S by W	0·0	0·0	0·0	55	0·00
31	..	29·735	74·2	61·1	64·9	58·3	82·8	44·0	65·8	63·5	6·6	13·5	4·0	+ 4·7	SW	NE; E	0·0	0·0	0·0	70	0·00
Sep. 1	..	29·602	70·0	56·2	62·3	60·6	73·5	53·0	65·3	63·1	1·7	4·8	0·9	+ 2·6	E	NE	1·4	0·0	0·1	90	0·52
2	Full	29·608	73·8	60·9	66·8	56·6	77·0	51·0	66·0	63·4	10·2	11·9	6·4	+ 7·5	S	S; E	0·0	0·0	0·0	80	0·20
3	..	29·798	73·8	57·7	65·3	57·6	80·7	55·5	66·0	63·7	7·7	10·5	4·5	+ 6·5	SSE	E	0·0	0·0	0·0	20	0·00
4	In Equator	29·918	77·0	58·8	66·0	61·0	84·0	52·0	66·3	63·7	5·0	9·8	1·0	+ 7·5	N	ENE	0·0	0·0	0·0	55	0·42
5	..	29·948	77·8	56·5	65·9	58·1	93·8	44·0	66·3	63·9	7·8	15·5	2·3	+ 7·4	N	NE	0·0	0·0	0·0	75	0·01
6	..	29·941	79·0	53·3	65·7	55·3	96·0	43·0	66·2	63·7	10·4	16·8	3·0	+ 7·2	N	NE	0·0	0·0	0·0	115	0·00
7	..	29·989	72·7	51·2	59·9	48·4	90·7	38·0	65·6	62·9	11·5	15·5	7·2	+ 1·2	NNE	NE	0·0	0·0	0·0	70	0·00
8	..	29·989	73·5	48·4	58·9	46·7	85·0	36·0	64·6	62·1	12·2	15·3	7·6	— 0·3	N	NE	0·0	0·0	0·0	70	0·00
9	Last Qr.	29·600	70·5	44·3	57·9	47·8	80·0	43·0	64·8	61·7	10·1	13·3	4·2	— 1·6	Calm	SW	0·0	0·0	0·0	30	0·00
10	..	29·253	70·7	53·0	60·7	53·9	77·0	44·0	63·8	61·4	6·8	11·2	2·9	+ 0·9	SW	S	1·0	0·0	0·0	40	0·00
11	Perigee Greatest Dec. N.	28·998	68·7	51·5	57·6	49·2	78·7	42·0	64·0	61·1	8·4	15·0	1·6	— 2·3	SSW	SW	0·0	0·0	0·0	60	0·05
12	..	28·914	58·5	47·2	50·7	47·5	67·5	43·8	63·3	60·1	3·2	7·2	2·9	— 9·2	SW	S	0·0	0·0	0·0	180	0·44
13	..	29·455	62·5	46·3	54·6	48·6	68·0	38·4	61·6	58·4	6·0	11·0	4·0	— 5·2	SW; W	NW	4·0	0·0	0·9	205	0·14
14	..	30·014	66·1	49·1	56·7	47·4	78·0	52·0	60·3	57·4	9·3	13·1	5·7	— 3·0	WSW	WSW	0·0	0·0	0·0	30	0·00
15	..	30·032	63·9	55·5	57·3	48·2	69·0	40·0	60·3	57·1	9·1	13·7	6·0	— 2·0	W	S	0·0	0·0	0·0	15	0·00
16	New	30·038	72·5	49·2	60·5	49·7	71·5	50·0	60·3	57·1	10·8	13·6	4·4	+ 1·8	S	Calm	0·0	0·0	0·0	15	0·00
17	In Equator	30·188	69·5	46·7	56·5	43·4	78·0	32·8	60·3	56·9	13·1	19·7	5·5	— 1·8	NNE	N	1·3	0·0	0·1	20	0·00
18	..	30·246	59·7	42·7	51·0	38·0	76·0	35·0	59·4	55·9	13·0	15·4	11·0	— 6·7	N	N	4·0	0·0	0·8	30	0·00
19	..	30·313	67·7	44·5	54·8	43·2	81·0	37·0	58·6	55·9	11·6	17·0	5·5	— 2·2	N	N by E	0·0	0·0	0·0	40	0·00
20	..	30·258	60·0	47·5	52·7	41·6	75·0	42·0	58·0	55·4	11·1	15·4	8·8	— 3·6	N by E	N	0·0	0·0	0·0	55	0·00
21	..	30·052	65·9	47·1	54·9	50·1	77·8	46·0	57·6	55·1	4·8	9·0	2·4	— 0·6	NE	NE	3·0	0·0	0·8	55	0·11
22	..	29·963	68·9	53·8	59·7	51·4	80·0	44·0	57·8	55·4	8·3	12·8	5·0	+ 4·9	ENE	NE	3·5	0·0	0·9	120	0·00
23	..	29·780	59·0	50·8	55·3	52·1	..	47·0	57·3	55·4	3·2	5·4	1·0	+ 1·0	NE	NE	0·0	0·0	0·0	15	0·10
24	Apogee First Quarter Greatest Declination S.	29·727	70·5	51·4	58·2	54·8	77·0	42·0	57·8	55·7	3·4	8·5	1·4	+ 4·5	NE	Calm	0·0	0·0	0·0	5	0·01
25	..	29·723	72·7	46·9	57·6	48·9	80·0	36·0	57·8	53·9	8·7	17·7	1·9	+ 4·4	Calm	E	0·0	0·0	0·0	35	0·00
26	..	29·701	68·2	45·3	56·1	53·8	..	50·5	57·6	55·4	2·3	2·9	1·1	+ 3·3	E	ENE	2·0	0·0	0·4	75	0·01
27	..	29·625	69·9	56·0	62·2	54·1	85·7	50·0	58·2	55·9	8·1	12·8	6·1	+ 9·9	ENE	ENE	4·7	0·0	0·9	105	0·22
28	..	29·704	69·9	53·5	59·5	52·4	79·8	49·0	59·2	56·4	7·1	10·7	3·2	+ 7·2	W	SSW	0·0	0·0	0·0	65	0·15
29	..	29·499	66·7	55·9	59·8	56·2	77·0	54·5	59·3	56·9	3·6	7·4	0·9	+ 7·3	S	SSW	0·0	0·0	0·0	55	0·20
30	..	29·070	61·2	56·5	57·7	52·8	..	50·0	59·3	56·9	4·9	7·4	0·9	+ 4·6	S; SW	SW	3·0	0·0	0·5	100	0·58
Oct. 1	..	29·374	58·7	49·5	52·6	50·8	70·0	48·0	58·8	56·4	1·8	4·8	1·3	— 1·0	NE	NNE	0·0	0·0	0·0	25	0·08
2	In Equator Full	29·582	55·7	42·3	48·3	43·7	66·0	36·0	58·8	55·7	4·6	8·2	1·3	— 5·4	NNE	NNE	0·0	0·0	0·0	5	0·02
3	..	29·254	61·7	41·8	52·5	50·3	69·0	48·8	57·8	54·9	2·2	5·3	1·5	— 1·1	SE	SW	14·8	0·0	2·5	145	0·55
4	..	29·097	60·7	46·5	51·0	48·7	62·0	29·2	56·8	53·9	2·3	4·8	1·2	— 2·3	WSW	NW	0·0	0·0	0·0	90	0·75
5	..	29·618	57·2	45·8	50·0	39·1	..	33·8	55·8	52·7	10·9	16·0	6·2	— 2·5	WSW	SW; SSW	0·0	0·0	0·0	85	0·02
6	Perigee	29·621	54·7	41·4	46·6	40·8	..	45·0	55·0	52·1	5·8	10·2	2·5	— 5·1	SW; W	NE	0·0	0·0	0·0	40	0·20
7	..	29·134	64·5	45·3	55·2	52·7	..	48·8	54·8	51·7	2·5	..	1·2	+ 3·8	SE; SW	SSW; NNW	0·0	0·0	0·0	110	0·55
8	Greatest Declination N.	29·594	52·9	41·0	47·1	40·5	..	25·5	54·0	50·7	6·6	11·0	4·8	— 4·3	NW; ENE	N	4·0	0·0	0·4	..	0·01
9	Last Qr.	29·868	51·9	32·7	42·4	33·3	..	36·0	52·6	49·9	9·1	14·5	4·3	— 9·0	N; NW	W	0·0	0·0	0·0	..	0·00
10	..	29·691	57·4	31·5	44·4	37·3	..	31·7	51·8	48·7	7·1	12·2	2·5	— 7·0	NW	NNE	0·0	0·0	0·0	..	0·00
11	..	29·387	56·2	36·7	47·4	38·6	..	36·0	51·3	47·9	8·8	13·2	5·8	— 4·0	NE	NE	4·0	0·0	0·5	110	0·00
12	..	29·455	55·3	40·5	46·6	36·0	..	33·0	50·8	46·4	10·6	14·7	6·7	— 4·7	NNE	NE	3·7	0·0	0·4	180	0·03
13	..	29·654	48·9	40·3	43·6	38·3	..	33·0	49·8	45·4	5·3	5·7	3·1	— 7·4	NE	NE	4·5	0·0	0·9	120	0·15
14	In Equator	29·914	48·6	37·5	42·8	34·9	..	31·0	48·8	44·4	7·9	9·2	4·3	— 7·9	NE	NNE	4·0	0·0	0·6	160	0·14
15	..	29·952	51·6	37·5	44·0	36·6	..	29·0	47·8	43·7	7·4	11·6	2·3	— 6·3	NNE	NE	3·7	0·0	0·4	60	0·00
16	New	29·908	55·7	36·3	45·9	39·9	..	38·5	48·8	44·9	6·0	9·8	2·8	— 3·6	NE	E	0·0	0·0	0·0	75	0·00
17	..	29·815	66·0	44·0	56·1	49·4	81·0	50·0	47·8	44·1	6·7	11·1	3·8	+ 7·3	E	S	1·0	0·0	0·0	170	0·05
18	..	30·043	68·9	53·5	59·7	51·8	84·0	40·0	48·8	45·4	7·9	11·4	5·9	+11·5	S by W	SW; S	0·0	0·0	0·0	90	0·00
19	..	29·839	69·7	48·7	59·5	51·0	82·8	44·8	49·8	46·7	8·5	13·6	3·6	+11·9	SSE	SE	0·0	0·0	0·0	40	0·00
20	..	29·783	67·3	53·5	59·1	52·6	87·0	45·0	50·8	47·9	6·5	10·4	2·0	+12·1	S; SW	WSW	0·0	0·0	0·0	45	0·05
21	..	29·741	58·7	47·2	50·9	47·7	..	35·0	50·8	47·9	3·2	3·6	2·6	+ 4·4	SW	SW	0·0	0·0	0·0	90	0·17
22	Greatest Dec. S. Apogee	29·952	60·0	42·2	52·4	48·8	..	43·0	52·0	48·7	3·6	7·6	2·1	+ 6·4	SW	SSW	0·0	0·0	0·0	135	0·02

MONTH and DAY, 1849.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Aug. 26	0	0 : m	3, li.-cls	10, li.-cls
27	0	0	8, ci.-s, li.-cls, sc	3, ci.-s, li.-cls, sc : 10, ci.-s, li.-cls, sc
28	0	w	7, ci.-s, li.-cls, sc	7, ci.-s, li.-cls, sc : 10, ci.-s, li.-cls, sc
29	0	0	10, ci.-s, sc, h	10, ci.-s, sc, h
30	0	s	10, ci.-s, sc, h	10, ci.-s, sc, h
31	v	v	10, ci.-s, sc, h	0
Sep. 1	0	0 : w	10, r	10 : 10, t.-s, r
2	0	0	5, cu, ci.-s	5, cu, ci.-s : 10, cu, ci.-s, l
3	0	0 : v : 0	0	10, ci.-s, sc : 10, ci.-s, sc, l, r
4	v	v	10, ci.-s	5, ci.-s
5	v	v	10, ci.-s : 0	0
6	0	0	0	0
7	0	0	10, ci.-s : 5, ci.-s	0
8	0	s : s : 0	10, ci.-s	10, ci.-s
9	v	v	5, cu.-s, ci.-s	5, cu.-s, ci.-s
10	0	m : 0	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc, l, r
11	w	w	5, cu, cu.-s, ci.-s	5, cu, cu.-s, ci.-s, l, t
12	v	v	10, ci.-s, sc, h, fr.-shs	10, ci.-s, sc, h, fr.-shs, l
13	0 : w	0	10, ci.-s, sc, sqs, w, r	5, ci.-s sc
14	0	0 : v : v	10, cu.-s, ci.-s	10, cu.-s, ci.-s
15	0	s : s : 0	10, ci.-s, sc	10, ci.-s, sc
16	0	0	10, ci.-s, sc, h	10, ci.-s, sc, h
17	v	v	3, cu, cu.-s, ci.-s	3, cu, cu.-s, ci.-s : 0
18	0	0	0 : 3, li.-cls	3, li.-cls : 10
19	v	v	10, cu.-s, ci.-s, h	3, cu.-s, ci.-s, h
20	0 : 0 : s	0	10, ci.-s, sc	10, ci.-s, sc : 0
21	0	0	10, cu.-s, ci.-s, shs	10, cu.-s, ci.-s, shs : 0
22	v	v	7, cu, cu.-s, ci.-s	0 : 10, cu, cu.-s, ci.-s
23	0	0	10, ci.-s, sc, sl.-r	10, ci.-s, sc, sl.-r
24	0	0 : s	10, cu, cu.-s, sc	10, sh, cu, cu.-s, sc : 5, cu, cu.-s, sc
25	v	v	0	0 : 0, h
26	0	0 : s	7, ci.-s, li.-cls	0
27	v	v	10, cu, cu.-s, ci-s, sc	10, cu, cu.-s, ci.-s, sc : 10, cu, cu.-s, ci.-s, sc, r
28	0	w : 0 : 0	0	10, ci.-s, sc
29	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, r
30	0	0	10, ci.-s, sc, h.-sqs	10, ci.-s, sc, h.-sqs
Oct. 1	0	s : s : 0	10, ci.-s, sc, m.-r	10, ci.-s, sc, m.-r
2	s	s	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc, th.-f
3	0 : 0 : s	0	10, ci.-s, sc, h.-r	10, ci.-s, sc, h.-r, st.-w
4	w	s : w	10, ci.-s, sc, h.-r : 10, ci.-s, sc	10, ci.-s, sc
5	0 : w	0	0	0 : 5, ci.-s, li.-cls : 10, ci.-s, li.-cls
6	s	s	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, r
7	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, h.-r
8	0 : m	0	10, ci.-s, sc	7, ci.-s, sc : 0
9	0	s : s : 0	0	5, cu.-s, ci.-s, h : 0
10	s	s	0	7, cu, cu.-s, ci.-s
11	w	w	10, ci.-s sc	10, ci.-s, sc
12	m	m	10, cu.-s, ci.-s, sc	7, cu.-s, ci.-s, sc
13	0	s : 0	10, ci.-s, sc, h.-r	10, ci.-s, sc, h.-r
14	0	0 : 0 : m	10, ci.-s, sc	0 : 5, ci.-s, sc
15	0 : 0 : s	0 : 0 : w	10, ci.-s	0
16	v	v	5, ci.-s, li.-cls	5, ci.-s, li.-cls : 10, ci.-s, li.-cls
17	0	0	5, ci.-s, li.-cls, r	5, ci.-s, li.-cls
18	0	0	0	0
19	0	0	0	5, ci.-s, li.-cls : 0
20	0	0 : v : 0	5, cls	5, ci.-s : 10, ci.-s, r
21	0	0	10, ci.-s, r	10, ci.-s : 0
22	0	0	10, ci.-s, li.-cls, sc : 7, ci.-s, li.-cls, sc	5, ci.-s, li.-cls, sc : 5, ci.-s, li.-cls, sc, fr.-shs, a

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit.	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9 A.M. next morning.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 7 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Oct. 23	..	29·987	63·7	55·5	58·1	52·2	..	46·0	52·3	49·4	5·9	9·0	3·6	+12·6	SW	SW	0·0	0·0	0·0	165	0·00
24	First Qr.	30·000	65·7	51·5	57·4	53·5	..	46·0	53·3	50·7	3·9	9·9	3·0	+ 2·3	SW	SW	0·0	0·0	0·0	125	0·01
25	..	29·830	62·2	52·8	56·9	52·9	..	48·0	53·4	50·7	4·0	5·6	3·6	+12·2	SSW	SW	1·8	0·0	0·1	140	0·05
26	..	29·694	59·7	50·5	54·0	48·0	..	40·8	53·8	50·9	6·0	10·6	3·8	+ 9·3	SW	WSW; SW	0·0	0·0	0·0	115	0·00
27	..	29·853	61·9	51·0	55·6	54·3	..	46·0	54·2	51·1	1·3	4·3	1·2	+10·7	SW	SSW	0·0	0·0	0·0	40	0·04
28	..	30·290	64·3	46·5	54·2	51·0	..	38·0	54·3	51·1	3·2	3·4	0·7	+ 8·8	N	WSW	0·0	0·0	0·0	70	0·00
29	In Equator	30·499	59·1	44·3	50·6	44·7	..	33·0	54·2	51·1	5·9	11·6	0·7	+ 4·5	SW	SE	0·0	0·0	0·0	85	0·00
30	..	30·067	61·1	40·5	51·1	38·7	..	41·0	53·6	50·7	12·4	16·4	8·0	+ 4·5	SE	S	0·0	0·0	0·0	115	0·00
31	Full	29·557	54·4	40·0	46·7	39·9	..	32·0	53·0	49·9	6·8	10·7	4·6	0·0	S; NW	WNW; S	0·0	0·0	0·0	75	0·00
Nov. 1	..	29·413	53·9	41·5	48·7	43·4	..	31·8	52·3	49·4	5·3	8·0	2·1	+ 2·1	SE; E	SE; E	0·0	0·0	0·0	50	0·00
2	Perigee	29·501	59·3	40·5	50·0	45·0	73·0	33·0	51·8	49·1	5·0	10·1	0·2	+ 3·8	ENE	NE	0·0	0·0	0·0	75	0·00
3	..	29·323	57·5	41·8	51·0	49·3	67·0	41·0	51·3	48·9	1·7	4·0	0·4	+ 5·0	NE	NE	0·0	0·0	0·0	30	0·00
4	Greatest Declination N.	29·027	55·2	47·5	50·9	48·0	..	36·0	51·2	48·4	2·9	4·8	1·2	+ 4·8	NE	S	0·0	0·0	0·0	85	0·07
5	..	29·085	53·5	41·5	46·8	37·6	62·0	31·7	50·3	47·7	9·2	11·8	6·5	+ 0·5	SSW	SW	4·0	0·0	0·7	195	0·00
6	..	29·533	50·4	38·3	43·7	34·5	59·0	28·8	49·3	46·1	9·2	15·8	4·8	− 2·6	SW	SSW	2·0	0·0	0·2	115	0·00
7	Last Qr.	29·915	56·5	35·3	47·3	44·0	60·0	39·0	48·8	45·7	3·3	4·9	1·8	+ 1·0	SW	WSW	3·0	0·0	0·8	305	0·06
8	..	30·191	58·2	54·5	56·5	51·0	59·8	48·0	49·2	46·4	5·5	6·3	4·6	+10·3	WSW	SW	0·0	0·0	0·0	55	0·00
9	..	30·217	58·7	48·5	53·6	47·8	65·0	42·0	49·3	46·7	5·8	7·0	4·0	+ 7·6	SSW	SSW	0·0	0·0	0·0	125	0·00
10	..	30·155	59·5	47·0	52·6	47·2	66·0	32·0	49·3	46·9	5·4	9·7	1·5	+ 6·9	WSW	S	0·0	0·0	0·0	90	0·00
11	In Equator	30·164	61·7	43·2	50·5	48·2	..	33·0	49·3	46·7	2·3	3·2	0·5	+ 5·2	S	SW	0·0	0·0	0·0	85	0·00
12	..	30·001	52·2	40·5	45·9	44·7	60·0	40·0	49·2	46·7	1·2	3·6	0·5	+ 1·1	SW	SSW	0·0	0·0	0·0	85	0·00
13	..	29·753	55·1	46·1	50·9	48·8	63·4	38·5	49·3	46·7	2·1	4·2	1·3	+ 6·6	S	SSW; WSW	2·0	0·0	0·3	150	0·10
14	New	29·501	54·2	38·8	45·7	40·6	60·0	30·0	48·8	45·9	5·1	10·4	2·9	+ 1·7	SW	SW	5·8	0·0	0·2	130	0·30
15	..	29·563	48·5	36·5	42·1	37·1	..	30·4	48·2	45·1	5·0	6·7	3·1	− 1·7	WSW	NW	3·5	0·0	0·5	145	0·15
16	..	29·907	47·4	36·9	42·0	34·8	56·0	28·0	47·3	43·9	7·2	10·8	5·0	− 1·7	NW	NNW	0·0	0·0	0·0	145	0·00
17	..	30·149	46·7	32·5	39·3	33·0	54·0	27·5	46·3	42·9	6·3	9·7	3·6	− 4·3	N	NNW	0·0	0·0	0·0	95	0·00
18	Greatest Dec. S. Apogee	29·992	50·5	38·5	47·0	43·3	..	45·0	46·0	42·4	3·7	5·1	2·3	+ 3·5	SW	WSW	0·0	0·0	0·0	145	0·03
19	..	29·923	51·5	44·0	47·6	43·2	53·0	39·0	45·8	42·9	4·4	6·5	2·3	+ 4·1	WSW; N	N	0·0	0·0	0·0	10	0·00
20	..	30·007	44·2	40·5	41·9	39·3	47·0	41·8	45·8	42·7	2·6	4·3	2·8	− 1·5	N; NE	ENE	0·0	0·0	0·0	40	0·00
21	..	29·945	47·0	38·5	42·8	38·2	50·0	30·0	45·6	42·7	4·6	6·2	3·2	− 0·6	ENE	E	0·0	0·0	0·0	70	0·00
22	..	29·728	42·5	34·2	38·3	33·3	47·7	32·0	44·8	42·4	5·0	6·7	4·4	− 5·1	E	E; SE	0·0	0·0	0·0	75	0·00
23	First Qr.	29·443	48·7	38·5	44·5	40·6	50·5	32·0	44·8	42·4	3·9	7·4	1·1	+ 1·0	SE	S	2·0	0·0	0·1	125	0·17
24	..	29·232	51·7	32·0	40·8	39·1	52·0	25·0	44·8	42·1	1·7	5·1	0·0	− 2·7	S	NNE	0·0	0·0	0·0	35	0·17
25	In Equator	29·374	39·7	29·9	34·2	33·4	..	23·0	44·3	41·7	0·8	0·8	0·0	− 9·3	NNW	NW	0·0	0·0	0·0	20	0·01
26	..	29·774	36·7	27·0	32·3	27·3	41·0	15·0	43·8	40·1	5·0	10·1	0·8	−11·3	NW; N	NE	0·8	0·0	0·0	60	0·00
27	..	30·018	35·2	24·5	29·2	25·7	40·0	18·0	42·4	38·7	3·5	4·8	2·5	−14·4	NE; N	N; NNE	0·0	0·0	0·0	15	0·00
28	..	29·884	29·7	23·5	26·1	25·4	36·0	19·0	41·6	37·4	0·7	2·6	1·8	−17·5	NNE	NNE	0·0	0·0	0·0	25	0·00
29	..	29·867	40·5	25·3	35·2	26·1	46·0	30·0	40·6	36·9	9·1	11·0	8·3	− 8·4	SSE; S	SSE	0·0	0·0	0·0	155	0·00
30	Full	29·717	48·5	35·3	44·3	43·6	50·5	28·0	40·6	36·4	0·7	2·2	0·9	+ 0·8	SSE	SW; N	2·0	0·0	0·4	65	0·57
Dec. 1	Perigee	29·986	44·7	34·7	40·0	37·1	49·0	33·0	40·3	36·9	2·7	5·1	2·0	− 3·3	W	SW; S	0·0	0·0	0·0	115	0·02
2	Greatest Declination N.	29·488	49·8	45·3	47·9	45·9	..	44·0	40·8	37·4	2·0	..	..	+ 4·9	S	S; SE	0·0	0·0	0·0	120	0·40
3	..	29·360	44·9	37·6	39·6	37·9	..	28·0	41·0	38·1	1·7	3·0	1·7	− 2·7	SE; ENE	NE	0·0	0·0	0·0	125	0·41
4	..	29·425	36·8	29·2	33·0	30·2	..	17·5	41·0	37·7	2·8	5·3	1·6	− 8·2	NNE	N; WSW	0·0	0·0	0·0	10	0·00
5	..	29·223	48·1	24·1	41·2	38·8	..	32·5	40·6	37·9	2·4	3·1	2·3	+ 0·7	WSW; ESE	SSE	0·0	0·0	0·0	125	0·17
6	Last Qr.	29·635	52·2	38·3	46·0	41·6	..	32·0	40·8	38·1	4·4	7·4	1·7	+ 6·3	E; SE	SSE	2·0	0·0	0·4	105	0·04
7	..	29·414	45·8	49·9	43·8	39·4	..	35·0	40·8	38·4	4·4	7·0	2·4	+ 4·4	SE	ESE	3·5	0·0	1·2	140	0·00
8	In Equator	29·391	48·5	39·0	43·9	39·8	..	26·0	41·0	38·4	4·1	7·5	1·4	+ 4·7	ENE; WSW	SW; SSW	0·0	0·0	0·0	70	0·30
9	..	29·819	44·7	32·9	37·2	36·7	..	29·0	40·8	37·9	0·5	0·3	0·0	− 1·8	SSW; SE	SE; ESE	0·0	0·0	0·0	5	0·00
10	..	30·050	39·4	31·5	37·0	36·5	..	35·0	40·4	37·7	0·5	1·0	0·8	− 2·0	ESE; ENE	N	0·0	0·0	0·0	40	0·12
11	..	29·994	40·9	32·6	36·7	33·4	..	32·0	40·2	37·1	3·3	6·0	2·0	− 2·4	N	NE	0·0	0·0	0·0	40	0·01
12	..	29·842	39·7	31·0	34·0	30·1	..	30·5	39·6	36·4	3·9	4·9	4·4	− 5·4	ENE	E	0·0	0·0	0·0	70	0·00
13	..	29·768	35·7	29·2	31·9	28·8	..	31·0	38·8	35·9	3·1	4·8	3·3	− 7·9	SE	SE	0·0	0·0	0·0	60	0·00
14	New Moon	29·746	51·7	38·7	49·4	48·1	..	40·0	39·6	36·1	1·3	2·3	0·9	+ 9·2	SE; SSW	SSE; SW	3·0	0·0	0·7	145	0·18
15	Greatest Declination S.	29·747	56·3	50·0	53·8	50·0	..	41·0	42·0	37·7	3·8	8·6	0·4	+13·4	SW	SSW	2·6	0·0	0·3	230	0·08
16	Apogee	29·738	53·2	47·5	50·9	48·0	..	42·0	42·8	38·7	2·9	4·2	1·7	+10·3	SW	SSW	2·0	0·0	0·1	265	0·00
17	..	29·599	51·7	45·2	48·2	41·6	54·5	36·0	44·4	39·9	6·6	9·2	3·5	+ 7·6	SW	WSW	14·0	0·0	2·7	230	0·20
18	..	29·478	53·2	43·1	49·9	47·0	53·0	38·0	44·8	40·9	2·9	5·7	1·2	+ 9·5	SSW	SW	6·0	0·0	2·0	305	0·19
19	..	29·952	48·5	38·8	43·0	34·6	46·7	28·0	44·8	41·1	8·4	9·7	6·3	+ 3·0	NW	N	3·5	0·0	1·1	135	0·00
20	..	30·124	40·7	34·0	37·7	32·4	44·0	25·0	43·8	40·7	5·3	7·0	3·3	− 1·8	NNW	NNW	2·8	0·0	0·6	90	0·05

MONTH and DAY, 1849.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Oct. 23	0	v : 0	8, ci.-s	8, ci.-s
24	0	0	10, ci.-s, li.-cls, sc	5, ci.-s, li.-cls, sc
25	0	s, N : 0	10, ci.-s	10, ci.-s : 10, ci.-s, r
26	0	0	7, cu.-s, ci.-s	0 : 10, cu.-s, ci.-s
27	0	0	10, ci.-s, sc, r	10, ci.-s, sc
28	0	0	10, ci.-s, sc, h	10, ci.-s, sc, h : 0
29	0	0	0 : 5, cu.-s, li.-cls	5, cu.-s, li.-cls : 0
30	0	0	0	0 : 5, cls
31	0	0	10, ci.-s : 0	0 : 10, ci.-s, lu, ha
Nov. 1	0	0	10, ci.-s	10, ci.-s : 5, ci.-s
2	w : 0 : 0	0	3	3 : 0
3	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, th, f
4	0	0	10, ci.-s, sc, r, f	10, ci.-s, sc, r, f
5	s	s	0	5, cu, ci, li.-cls : 0
6	0	s : 0	0	0
7	0	0	10, ci.-s : 10, ci.-s, r, hl	10, ci.-s
8	0	0	10, ci.-s	10, ci.-s
9	0	0	10, ci.-s, sc	10, ci.-s, sc
10	0	0	8, ci.-s, li.-cls	8, ci.-s, li.-cls : 0
11	0	0	0	0 : 5, ci.-s, h
12	0	0	10, th.-f : 7	7 : 10
13	0	0	5, ci.-s, sc : 10, ci.-s, sc	10, ci.-s, sc, fr.-shs : 5, ci.-s, sc
14	0	0	7, cu, ci.-s, sc	7, cu, ci.-s, sc : 0
15	0	0	0 : 8, cu.-s, ci.-s, sc	8, cu.-s, ci.-s, sc, fr.-shs
16	0	0	5, cu.-s, ci.-s, h	5, cu.-s, ci.-s, h : 0
17	0	0	0	0
18	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r
19	0	0	10, ci.-s, sc	10, ci.-s, sc
20	0	0	10, ci.-s, sc	10, ci.-s, sc
21	0	0	10, ci.-s, sc	10, ci.-s, sc
22	0	0	10, ci.-s, sc	10, ci.-s, sc
23	0	0	10, ci.-s, sc	10, ci.-s, sc, r
24	0	w	10, ci.-s, sc	5, cu, ci.-s, sc, th.-f : 0
25	0	0 : s	10, ci.-s, th, f	10, ci.-s, th.-f : 0
26	0	0 : s	10, ci.-s, sc	0 : 5, ci.-s, sc
27	v	v	10, ci.-s : 5, ci.-s	0 : 0, th.-f
28	s	s : w	5, th, f : 0	0 : 8, cu.-s
29	0	0	10, ci.-s	5, ci.-s : 8, ci.-s, lu. ha
30	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r
Dec. 1	s	0	0	10
2	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r
3	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r
4	0	0	2, li.-cls, ci.-s	5, li.-cls, ci.-s : 7, li.-cls, ci.-s : 5, li.-cls, ci.-s
5	s, N	0	10, r, cls, ci.-s, sc	10, cls, ci.-s, sc, fr.-shs
6	0	m : 0	0	0
7	0	0	10	10
8	0	0 : s	10, h.-r : 0	0
9	0 : s	0	0	0, h.-f : 10, ci.-s, th.-f
10	m	m	10, ci.-s, sc, f	10, ci.-s, sc, f, r : 10, ci.-s, sc, f
11	0	0 : m	10, ci.-s, sc, r	10, ci.-s, sc, r
12	m	m	10, ci.-s, sc	10, ci.-s, sc
13	m	m	10, ci.-s, sc	10, ci.-s, sc
14	0	0	10, r, ci.-s, sc	10, r, ci.-s, sc
15	0	0	10, ci.-s, sc, r : 10, ci.-s, sc	10, ci.-s, sc
16	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, r
17	0	0	0 : 10, ci.-s, sc	10, ci.-s, sc : 0
18	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r
19	0	0	7, ci -s, li.-cls	8, ci.-s, li.-cls : 0
20	0	0	0	8, ci.-s, sc

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers.								Difference between the Dew Point Temperature and Air Temperature.			Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 Years.	Wind as deduced from Anemometers.						Rain in Inches read at 9h P. M.
			Dry.			Dew Point.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning.						Osler's.					Wheewell's	
															General Direction.		Pressure in lbs. on the square foot.			Amount of Horizontal Movement of the Air on each Day.	
			Highest.	Lowest.	Mean Daily Value.	Mean Daily Value.			Highest.	Lowest.	Mean Daily Value.	Greatest.	Least.		A. M.	P. M.	Greatest.	Least.	Mean of 24 Obs.		
		In.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Dec. 21	..	30·341	37·3	30·3	32·9	30·4	37·5	25·4	42·6	38·7	2·5	5·3	2·3	— 6·1	N	NNE	2·0	0·0	0·1	125	0·01
22	First Qr.	30·434	35·3	31·0	33·3	30·5	36·7	25·0	40·8	37·1	2·8	4·9	1·0	— 5·2	NNE	NNE	3·0	0·0	0·5	100	0·00
23	In Equator	30·440	36·3	29·0	32·6	29·0	..	17·8	39·3	34·9	3·6	5·3	2·7	— 5·8	NNE	N	4·0	0·0	0·5	50	0·00
24	..	30·304	35·3	26·3	32·0	28·9	37·9	26·8	38·3	33·9	3·1	5·9	1·8	— 6·3	N; SW	WSW	0·0	0·0	0·0	25	0·02
25	..	30·378	37·1	30·3	34·2	28·2	..	28·8	37·4	32·9	6·0	10·1	3·5	— 3·8	NE	N	0·0	0·0	0·0	25	0·00
26	..	29·922	41·3	34·0	38·6	36·6	44·0	32·0	37·3	32·9	2·0	3·4	0·7	+ 0·7	SW	W	0·0	0·0	0·0	155	0·00
27	..	29·327	42·1	33·3	37·7	28·7	45·0	22·8	36·6	32·7	9·0	12·3	6·0	— 0·2	SW; NW	NNW	4·5	0·0	1·4	110	0·00
28	..	29·308	33·0	23·1	25·2	18·9	39·0	10·8	35·0	30·9	6·3	15·4	3·4	—13·0	NW	NNW	5·0	0·0	1·4	170	0·00
29	Full Perigee Greatest Declination N	29·460	36·5	18·8	31·1	23·9	39·0	31·0	34·3	29·9	7·2	8·5	4·5	— 7·4	SW	NW	3·0	0·0	0·9	190	0·00
30	..	29·999	37·7	30·0	33·5	27·3	..	24·0	33·3	29·9	6·2	7·0	2·8	— 5·2	N	N	0·0	0·0	0·0	115	0·00
31	..	29·956	38·0	29·3	34·3	28·1	42·0	19·3	33·8	29·9	6·2	8·5	2·8	— 4·7	N by W	NNW; W	0·0	0·0	0·0	95	0·00

MONTH and DAY, 1849.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Dec. 21	0	0	10, ci.-s, sc, shs, sn, hl	10, ci.-s, sc
22	0	0	8, ci.-s, sc	8, ci.-s, sc, fr.-shs, sn
23	0	0	0	0 : 10, ci.-s
24	s	s	10, ci.-s, sc	10, ci.-s, sc, sl, sn : 10, ci.-s, sc, m.-r
25	s	s	8, ci.-s, sc : 0	0 : 10, ci.-s, sc
26	0	0	10, ci.-s, sc, f, r	10, ci.-s, sc
27	0	0	5, ci.-s, h : 0	0
28	0	0	10, h.-sn : 0	0 : 10, cls
29	w	0	10, ci.-s, sc	10, ci.-s, sc : 3, cls
30	0	0	0	0
31	0	0	10, ci.-s, sc : 0	10, ci.-s, sc

MAXIMA AND MINIMA READINGS OF THE BAROMETER.

The following table contains the highest and lowest readings of the Barometer, reduced to 32° Fahrenheit, as taken by the eye-observations. There is good reason to believe that these readings do not differ much from true maxima and minima, although the times may sometimes be sensibly erroneous.

Maxima.			Minima.			Maxima.			Minima.		
Approximate Mean Solar Time, 1849.		Reading.	Approximate Mean Solar Time, 1849.		Reading.	Approximate Mean Solar Time, 1849.		Reading.	Approximate Mean Solar Time, 1849.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	1. 9. 0	30·095	January	3. 3. 0	29·582	June	21. 21. 0	30·057	July	3. 3. 0	29·550
	7. 0. 0	29·971		10. 0. 0	28·829	July	10. 21. 0	30·252		19. 21. 0	29·401
	11. 21. 0	30·060		14. 0. 0	29·314		21. 22. 0	29·938		25. 3. 0	29·314
	23. 9. 0	30·328		28. 9. 0	29·259	August	1. 21. 0	30·020	August	9. 3. 0	29·550
February	4. 21. 0	30·402	February	8. 3. 0	29·988		19. 21. 0	30·222	September	1. 9. 0	29·496
	11. 9. 0	30·715		20. 3. 0	29·465	September	7. 9. 0	30·048		12. 0. 0	28·881
	21. 0. 0	29·905		25. 9. 0	29·242		19. 0. 0	30·364		30. 8. 25	29·075
	27. 0. 0	29·945		28. 9. 0	29·208	October	2. 9. 0	29·641	October	3. 21. 0	28·929
March	5. 21. 0	30·476	March	8. 3. 0	29·679		8. 21. 0	29·914		11. 3. 0	29·375
	10. 22. 0	30·336		12. 21. 0	29·924		18. 9. 0	30·058		20. 23. 0	29·682
	16. 0. 0	30·219		27. 21. 0	29·144		28. 21. 0	30·541	November	4. 9. 0	28·975
April	11. 21. 0	29·710	April	13. 3. 0	29·091	November	8. 21. 0	30·255		14. 3. 0	29·467
	29. 21. 0	30·184	May	5. 3. 0	29·615		17. 9. 0	30·185		24. 3. 0	29·214
May	12. 0. 0	30·094		17. 0. 0	29·184		27. 9. 0	30·026	December	2. 10. 20	29·299
	28. 9. 0	30·085		31. 3. 0	29·829	December	10. 9. 0	30·068		18. 9. 0	29·328
June	6. 21. 0	30·036	June	9. 23. 0	29·529		24. 22. 0	30·475		27. 21. 0	29·234
	13. 21. 0	30·054		16. 3. 0	29·630		31. 0. 0	30·219			

READINGS OF THE THERMOMETERS SUNK IN THE GROUND.

(I.)—Reading of a Thermometer whose bulb is sunk to the depth of 25·6 feet (24 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month, 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·79	51·18	50·45	*S*	49·33	48·97	*S*	49·77	50·62	51·35	51·95	52·08
2	51·74	51·19	50·45	49·81	49·32	48·97	49·15	49·82	*S*	51·36	51·96	*S*
3	51·71	51·17	50·44	49·78	49·32	*S*	49·17	...	50·67	51·40	51·97	52·08
4	51·76	*S*	*S*	49·78	49·30	48·96	49·19	49·86	50·72	51·43	*S*	52·08
5	51·71	51·13	50·40	49·75	49·29	48·98	49·20	*S*	50·75	51·47	51·98	52·12
6	51·72	51·08	50·38	49·75	*S*	48·96	49·23	49·93	50·76	51·45	51·98	52·13

(I.)—Reading of a Thermometer whose bulb is sunk to the depth of 24 French feet—*continued.*

Day of the Month, 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
7	*S*	51·05	50·38	49·73	49·23	48·96	49·26	49·96	50·78	*S*	51·98	52·13
8	51·69	51·07	50·30	*S*	49·23	48·96	*S*	50·03	50·80	51·53	52·04	52·13
9	51·66	51·34	50·27	49·72	49·20	48·95	49·28	50·03	*S*	51·53	52·05	*S*
10	51·66	51·00	50·25	49·68	49·18	*S*	49·30	50·05	50·86	51·54	52·05	52·09
11	51·62	*S*	*S*	49·67	49·18	48·95	49·33	50·07	50·87	51·58	*S*	52·09
12	51·59	50·90	50·25	49·64	49·18	48·95	49·35	*S*	50·80	51·60	52·05	52·07
13	51·64	50·87	50·24	49·63	*S*	48·97	49·37	50·10	50·92	51·62	52·06	52·06
14	*S*	50·88	50·18	49·62	49·16	48·97	49·38	50·17	50·95	*S*	52·09	52·11
15	51·58	50·87	50·18	*S*	49·15	48·98	*S*	50·16	50·97	51·65	...	52·13
16	51·55	50·82	50·15	49·55	49·14	48·98	49·43	50·19	*S*	51·68	52·05	*S*
17	51·58	50·80	50·14	49·52	49·12	*S*	49·44	50·23	51·04	51·76	52·05	52·07
18	51·52	*S*	*S*	49·52	49·13	49·02	49·45	50·23	51·04	51·76	*S*	52·06
19	51·53	50·76	50·07	49·47	49·10	49·00	49·45	*S*	51·08	51·78	52·08	52·04
20	51·50	50·74	50·05	49·47	*S*	49·06	49·47	50·30	51·08	51·80	52·05	52·00
21	*S*	50·73	50·04	49·45	49·10	49·03	49·50	50·33	51·13	*S*	52·08	51·98
22	51·44	50·72	50·00	*S*	49·06	49·04	*S*	50·36	51·15	51·80	52·06	51·98
23	51·44	50·66	50·03	49·44	49·08	49·07	49·49	50·38	*S*	51·84	52·08	*S*
24	51·42	50·64	49·96	49·42	49·08	*S*	49·48	50·41	51·22	51·86	52·07	51·94
25	51·38	*S*	*S*	49·40	49·07	49·07	49·59	50·44	51·23	51·87	*S*	(Christ. Day.)
26	51·35	50·59	49·96	49·38	49·05	49·08	49·63	*S*	...	51·88	52·06	51·94
27	51·34	50·56	49·92	49·37	*S*	49·10	49·64	50·53	51·28	51·90	52·07	51·93
28	*S*	50·54	49·88	49·35	49·03	49·10	49·69	50·54	51·31	*S*	52·04	51·86
29	51·25		49·88	*S*	48·98	49·12	*S*	50·58	51·33	51·83	52·06	51·88
30	51·23		49·85	49·35	48·98	49·03	49·73	50·58	*S*	51·84	52·10	*S*
31	51·21		49·86		48·97		49·75	50·60		51·93		51·86

The letter *S* denotes that the day was Sunday.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean of the readings at noon was found in twelve instances to be greater by 0°·01 than the monthly mean of all the observations; in one instance the excess was 0°·02, and in another it amounted to 0°·03. In all the remaining cases the means of the noon observations agreed precisely with the means of all the observations.

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12·8 feet (12 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month, 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	50·32	48·24	47·24	*S*	46·90	48·55	*S*	53·85	55·13	55·58	54·41	52·85
2	50·18	48·24	47·24	46·96	46·86	48·60	51·38	53·93	*S*	55·55	54·38	*S*
3	50·08	48·26	47·23	46·90	46·94	*S*	51·46	...	55·19	55·55	54·34	52·72
4	50·12	*S*	*S*	46·93	46·88	48·75	51·55	53·98	55·24	55·55	*S*	52·58
5	49·98	48·20	47·24	46·88	46·90	48·87	51·65	*S*	55·28	55·56	54·25	52·52
6	49·97	48·13	47·24	46·88	*S*	48·95	51·77	54·09	55·31	55·48	54·20	52·45
7	*S*	48·08	47·28	46·90	46·94	49·03	51·90	54·16	55·30	*S*	54·14	52·33
8	49·75	48·13	47·17	*S*	46·97	49·14	*S*	54·27	55·35	55·53	54·19	52·23
9	49·74	48·08	47·15	46·95	47·00	49·22	52·04	54·24	*S*	55·48	54·14	*S*
10	49·65	48·03	47·16	46·93	47·03	*S*	52·12	54·25	55·40	55·48	54·10	51·99
11	49·54	*S*	*S*	46·92	47·08	49·32	52·22	54·30	55·38	55·49	*S*	51·92
12	49·44	47·92	47·16	46·93	47·14	49·50	52·30	*S*	55·43	55·44	53·98	51·78
13	49·45	47·90	47·14	46·94	*S*	49·64	52·40	54·32	55·46	55·39	53·94	51·68
14	*S*	47·90	47·14	46·96	47·26	49·75	52·47	54·40	55·58	*S*	53·94	51·69
15	49·22	47·88	47·14	*S*	47·30	49·90	*S*	54·40	55·55	55·34	...	51·63
16	49·10	47·84	47·11	46·87	47·40	49·97	52·65	54·43	*S*	55·30	53·74	*S*
17	49·08	47·84	47·10	46·86	47·44	*S*	52·73	54·49	55·67	55·36	53·69	51·36
18	48·94	*S*	*S*	46·91	47·54	50·20	52·79	54·54	55·60	55·30	*S*	51·27
19	48·92	47·78	47·05	46·88	47·56	50·26	52·84	*S*	55·65	55·24	53·62	51·13
20	48·84	47·75	47·04	46·94	*S*	50·44	52·93	54·65	55·64	55·19	53·54	51·03
21	*S*	47·77	47·04	46·94	47·70	50·45	53·04	54·71	55·60	*S*	53·50	50·93

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12 French feet—*continued*.

Day of the Month. 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
22	48·64	47·73	47·04	*S*	47·73	50·56	*S*	54·75	55·70	54·98	53·42	50·85
23	48·65	47·65	47·07	46·96	47·82	50·69	53·20	54·78	*S*	54·94	53·38	*S*
24	48·59	47·52	47·04	46·95	47·90	*S*	53·19	54·83	55·72	54·90	53·33	50·70
25	48·50	*S*	*S*	46·94	47·95	50·83	53·39	54·80	55·69	54·82	*S*	Christ. Day.
26	48·44	47·60	47·04	46·97	48·00	50·90	53·46	*S*	...	54·74	53·15	50·61
27	48·45	47·51	47·00	46 94	*S*	50·98	53·55	54·95	55·70	54·68	53·12	50·55
28	*S*	47·46	46·97	46·87	48·14	51·03	53·65	55·02	55·69	*S*	52·98	50·43
29	48·30		46·97	*S*	48·25	51·14	*S*	55·06	55·66	54·67	52·94	50·39
30	48·28		46·98	46·88	48·37	51·19	53·75	55·08	*S*	54·52	52·95	*S*
31	48·25		46·98		48·44		53·83	55·08		54·43		50·26

The letter *S* denotes that the day was Sunday.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be of the same value in three cases as the monthly mean of all the readings; in five cases it was in excess by 0°·01; in seven cases the excess amounted to 0°·02; in four cases to 0°·03; and in one case to 0°·04.

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6·4 feet (6 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month. 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	47·08	45·90	44·96	*S*	46·40	52·27	*S*	57·90	58·25	57·80	54·45	50·10
2	46·94	45·88	45·12	45·51	46·60	52·42	56·60	57·90	*S*	57·70	54·40	*S*
3	49·83	45·83	45·18	45·54	46·84	*S*	56·69	...	58·20	57·65	54·28	49·49
4	46·81	*S*	*S*	45·64	47·07	52·80	56·78	57·80	58·20	57·65	*S*	49·11
5	46·58	45·70	45·19	45·70	47·30	53·10	56·89	*S*	58·20	57·50	53·99	49·05
6	46·42	45·68	45·22	45·78	*S*	53·20	57·04	57·80	58·25	57·34	53·85	48·98
7	*S*	45·71	45·38	45·87	47·77	53·48	57·08	57·80	58·25	*S*	53·70	48·85
8	45·98	45 85	45·37	*S*	48·08	53·72	*S*	58·85	58·15	57·03	53·68	48·75
9	45·70	45·88	45·40	46·13	48·31	53·90	57·30	58·85	*S*	56·77	53·48	*S*
10	45·50	45·89	45·49	46·22	48·49	*S*	57·44	58·85	58·00	56·60	53·31	48·48
11	45·30	*S*	*S*	46·32	48·67	54·22	57·70	57·80	58·10	56·47	*S*	48·44
12	45·20	45·87	45·50	46·42	48·70	54·38	57·80	*S*	58·00	56·20	53·19	48·34
13	45·27	45·87	45·42	46·47	*S*	54·50	57·90	57·80	58·00	55·98	53·07	48·23
14	*S*	45·87	45·31	46·52	48·94	54·57	58·00	58·85	58·00	*S*	53·12	48·23
15	45·16	45·78	45·34	*S*	48·90	54·67	*S*	58·80	58·20	55·48	...	48·12
16	45·12	45·68	45·38	46·40	48·98	54·60	57·95	57·75	*S*	55·27	52·86	*S*
17	45·28	45·57	45·40	46·38	49·08	*S*	58·00	58·70	58·00	55·17	52·70	47·78
18	45·27	*S*	*S*	46·38	49·27	54·77	58·10	57·60	58·00	54·92	*S*	47·78
19	45·38	45·47	45·57	46·30	49·38	54·90	58·15	*S*	58·00	54·77	52·39	47·80
20	45·47	45·40	45·60	46·30	*S*	54·96	58·10	57·50	58·00	54·67	52·12	47·87
21	*S*	45·43	45·70	46·20	49·78	55·00	58·00	58·45	57·95	*S*	52·00	47·90
22	45·58	45·40	45·74	*S*	49·86	55·08	*S*	58·40	58·00	54·48	51·80	47·90
23	45·78	45·40	45·85	46·04	50·04	55·26	58·00	58·35	*S*	54·48	51·70	*S*
24	45·89	45·47	45·78	45·96	50·27	*S*	58·00	58·30	58·00	54·50	51·59	47·73
25	45·90	*S*	*S*	45·90	50·38	55·40	58·00	58·30	57·95	54·48	*S*	Christ. Day.
26	45·98	45·57	45·85	45·89	50·50	55·62	58·00	*S*	...	54·48	51·20	47·38
27	46·08	45·50	45·77	45·97	*S*	55·84	58·00	59·05	57·90	54·48	51·13	47·19
28	*S*	45·52	45·68	46·03	50·90	55·96	58·00	59·05	57·90	*S*	50·87	46·91
29	46·08		45·60	*S*	52·12	56·19	*S*	59·10	57·85	54·47	50·67	46·79
30	46·08		45·56	46·27	52·10	56·30	57·90	58·30	*S*	54·50	50·47	*S*
31	46·00		45·58		52·15		57·90	58·30		54·46		46·47

The letter *S* denotes that the day was Sunday.

The reading on March 1 is supposed to be erroneous. The increase in the readings from May 28 to May 29 is remarkable.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be higher than the monthly mean reading, as found from all the observations, by 0°·03.

(IV.)—Reading of a Thermometer whose bulb is sunk to the depth of 3·2 feet (3 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month, 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	43·34	42·84	42·58	*S*	46·96	56·15	*S*	60·50	62·18	58·38	53·12	44·70
2	42·98	42·59	42·47	44·08	47·50	56·46	60·44	60·68	*S*	58·18	52·70	*S*
3	42·30	42·78	42·48	44·38	48·00	*S*	60·80	...	62·12	57·87	52·37	44·92
4	41·76	*S*	*S*	44·48	48·70	57·04	60·80	60·58	62·08	57·35	*S*	45·05
5	41·11	43·50	43·38	44·50	49·53	57·59	60·80	*S*	62·20	57·01	52·10	44·97
6	40·85	43·78	43·67	44·89	*S*	57·90	60·78	60·40	62·30	56·30	51·80	44·57
7	*S*	43·98	43·89	45·19	50·57	58·28	61·00	60·59	62·18	*S*	51·27	44·67
8	40·42	44·12	44·00	*S*	50·62	58·38	*S*	61·00	62·05	55·50	50·89	44·75
9	40·30	44·06	43·98	45·88	50·30	58·40	61·98	61·40	*S*	55·38	51·10	*S*
10	40·54	43·88	43·50	45·94	49·90	*S*	62·47	61·78	61·40	54·92	51·40	44·58
11	40·88	*S*	*S*	45·92	49·60	58·10	62·70	62·10	61·20	54·00	*S*	44·37
12	41·04	43·70	42·67	45·75	49·40	57·70	62·88	*S*	60·90	53·50	51·48	44·21
13	41·02	43·21	42·84	45·45	*S*	57·40	63·08	62·50	60·48	53·19	51·30	43·90
14	*S*	42·71	43·24	45·28	49·67	57·28	63·28	62·43	59·98	*S*	51·26	43·61
15	42·25	42·50	43·50	*S*	50·08	57·45	*S*	62·20	59·50	52·40	...	43·72
16	42·30	42·60	43·82	44·98	50·58	57·62	63·48	62·00	*S*	52·07	50·30	*S*
17	42·40	42·71	44·22	44·82	50·97	*S*	63·37	61·80	59·30	51·91	49·73	45·07
18	42·70	*S*	*S*	44·70	51·30	58·00	63·30	61·38	59·30	52·06	*S*	45·49
19	43·10	42·58	44·42	44·37	51·49	57·97	62·90	*S*	58·90	52·50	48·70	45·62
20	43·52	42·88	44·45	43·97	*S*	58·13	62·30	60·78	58·54	52·90	48·80	45·62
21	*S*	43·28	44·44	43·69	51·88	58·05	61·86	60·85	58·40	*S*	48·88	45·17
22	44·17	43·38	44·39	*S*	52·00	58·38	*S*	60·98	58·28	53·57	48·78	44·50
23	44·35	43·68	44·35	43·57	52·34	58·80	61·23	61·12	*S*	53·43	48·47	*S*
24	44·23	43·68	44·08	43·90	52·56	*S*	61·20	61·30	58·30	53·60	48·19	43·27
25	44·27	*S*	*S*	44·27	52·88	59·00	60·75	61·40	58·28	53·77	*S*	Christ. Day.
26	44·10	43·60	43·55	44·57	53·47	60·31	60·43	*S*	...	53·90	47·60	42·30
27	44·52	43·48	43·24	45·11	*S*	60·66	60·30	61·70	58·19	54·00	46·98	42·19
28	*S*	43·19	43·12	45·40	54·48	60·78	60·30	61·93	58·20	*S*	46·12	42·05
29	43·70		43·19	*S*	55·00	60·90	*S*	61·98	58·35	54·08	45·40	41·70
30	43·39		43·27	46·30	55·50	60·70	60·50	62·08	*S*	54·03	44·90	*S*
31	43·02		43·40		55·70		60·94	62·10		53·55		40·88

The letter *S* denotes that the day was Sunday.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting on Sundays, and a few other days). During that interval of time, the monthly mean reading at noon, in the Months from April to September, was found to be 0° ·08 higher than the mean for the same months from all the observations, and in the remaining months the excess was 0° ·03.

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of one inch below the surface of the soil, within the box which covers the tops of the deep-sunk Thermometers, at Noon on every Day, except Sundays.

Day of the Month, 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	37·5	38·5	40·0	*S*	53·0	63·0	*S*	62·7	65·8	56·7	50·8	41·8
2	32·0	45·0	45·0	48·0	53·0	65·0	65·0	64·0	*S*	54·0	50·0	*S*
3	31·0	46·5	45·7	45·5	57·8	*S*	65·7	...	66·0	52·8	51·0	44·0
4	35·0	*S*	*S*	47·0	60·7	65·0	64·0	61·0	67·0	56·0	*S*	39·0
5	36·0	46·5	46·0	48·0	61·7	69·6	63·7	*S*	67·0	50·0	49·5	42·0
6	35·0	46·0	46·0	49·0	*S*	63·8	65·5	63·3	63·8	50·0	47·7	45·0
7	*S*	44·0	48·0	49·5	54·0	63·7	70·0	65·8	64·0	*S*	44·0	44·0
8	38·5	44·0	44·8	*S*	51·0	64·0	*S*	70·5	61·0	53·4	54·0	43·0
9	40·5	42·5	38·5	48·0	49·8	60·5	70·0	67·0	*S*	48·0	53·8	*S*
10	43·8	48·0	38·8	47·0	48·8	*S*	69·0	68·0	61·0	45·0	52·7	41·0
11	40·7	*S*	*S*	45·0	50·0	57·6	70·0	78·8	61·7	50·0	*S*	41·0
12	36·0	39·0	47·5	43·0	51·7	56·6	70·0	*S*	67·7	50·0	49·7	39·0
13	46·5	37·0	49·0	45·5	*S*	58·5	70·0	65·6	57·7	48·0	52·0	37·5

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of one inch—*continued*.

Day of the Month, 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	■	°	°
14	*S*	41·0	43·0	44·5	55·8	60·0	68·0	63·5	59 0	*S*	50·5	45·0
15	41·5	44·8	47·0	*S*	56·7	63·0	*S*	64·8	59·0	48·8	...	50·5
16	41·8	41·7	48·0	45·5	57·0	61·4	68·0	63·0	*S*	47·7	44·0	*S*
17	49·0	40·0	46·6	43·0	56·5	*S*	70·0	62·0	60·8	54·0	43·0	49·8
18	45·0	*S*	*S*	41·7	56·8	63·3	65·5	60·7	56·0	57·0	*S*	48·0
19	48·5	45·8	44·0	40·0	54·4	61·7	62·6	*S*	57·5	56·3	49·8	46·0
20	48·0	45·0	44·0	42·0	*S*	61·5	59·5	63·8	56·8	60·8	45·8	41·0
21	*S*	43·0	44·0	40·8	58·5	63·6	61·3	64·0	67·8	*S*	47·0	39·0
22	45·8	49·8	43·0	*S*	54·7	63·0	*S*	65·7	60·0	53·0	43·0	38·0
23	46·0	41·0	43·2	48·0	56·8	68·0	62·6	64·0	*S*	56·5	44·0	*S*
24	47·5	46·0	42·5	46·0	60·0	*S*	56·0	64·6	62·0	57·0	47·0	35·0
25	48·4	*S*	*S*	48·0	61·0	66·4	60·7	66·2	58·0	56·8	*S*	Christ. Day.
26	46·6	42·5	41·0	48·0	61·0	67·2	61·7	*S*	...	56·7	40·0	38·0
27	41 0	40·7	42·0	50·0	*S*	68·0	61·0	61·0	61·0	54·8	36·0	40·0
28	*S*	45·0	43·0	50·0	58·0	64·0	63·8	64·0	61·0	*S*	34·0	31·0
29	40·0		43·4	*S*	59·0	65·0	*S*	66·0	61·3	53·0	38·8	33·0
30	39·0		44·8	54·8	63·0	63·6	62·8	67·7	*S*	53·0	43·7	*S*
31	41 2		48·0		63·8		63·0	65·7		51·0		37·0

The letter *S* denotes that the day was Sunday.

(VI.)—Reading of a Thermometer within the case covering the deep sunk Thermometers, whose bulb is placed on a level with the scales of the other Thermometers, at Noonon every Day, except Sundays.

Days of the Month, 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	■	°	°
1	32·5	40·0	42·8	*S*	58·8	69·8	*S*	66·0	69·8	56·0	54·0	43·0
2	29·0	48·6	49·8	51·4	58·8	72·7	67·8	70·0	*S*	52·8	55·0	*S*
3	26·6	47·5	50·8	50·0	65·6	*S*	68·0	...	70·0	54·0	54·4	40·2
4	34·5	*S*	*S*	51·7	71·5	71·0	64·8	69·8	72·8	57·7	*S*	36·5
5	34·8	48·0	50·0	52·8	72·0	82·0	67·0	*S*	74·0	50·5	51·8	44·0
6	34·5	41·5	53·4	55·8	*S*	67·0	71·0	70·0	73·0	50·8	49·0	44·0
7	*S*	43·5	51·5	52·0	48·8	68·0	79·4	75·0	67·8	*S*	43·7	44·5
8	38·5	49·5	44·0	*S*	52·6	69·3	*S*	79·0	66·8	52·0	56·7	46·0
9	42·0	45·0	38·0	52·0	51·0	63·8	76·0	71·3	*S*	46·0	56·7	*S*
10	46·0	51·7	41·7	48·0	45·6	*S*	75·0	74·0	66·2	49·8	56·4	39·0
11	38·0	*S*	*S*	41·5	50·5	59·0	77·8	76·0	65·0	53·8	*S*	39·0
12	34·8	36·7	52·0	43·5	54·6	58·0	77·2	*S*	56·0	51·7	53·0	34·5
13	50·5	39·5	55·5	44·5	*S*	65·0	76·3	66·0	59·0	48·0	53·5	31·5
14	*S*	45·8	42·8	48·5	60·0	66·7	76·3	65·5	63·5	*S*	52·5	49·0
15	41·5	50·0	50·0	*S*	62·0	71·7	*S*	67·0	63·7	50·0	...	55·5
16	44·0	40·8	50·4	47·0	60·7	65·5	75·0	64·5	*S*	51·0	47·5	*S*
17	52·5	44·3	51·8	41·4	58·0	*S*	71·3	66·8	64·0	61·0	44·8	51·7
18	48·5	*S*	*S*	45·4	60·0	69·0	66·8	65·5	57·7	64·8	*S*	51·0
19	50·5	48·0	43·8	37·6	58·0	63·0	63·0	*S*	62·0	65·0	50·0	44·8
20	49·5	47·7	45·8	43·7	*S*	67·0	60·0	68·0	58·0	67·7	43·0	40·5
21	*S*	44·5	46·4	42·0	64·0	69·0	63·0	67·8	63·0	*S*	46·0	35·5
22	48·0	55·0	41·7	*S*	56·0	69·0	*S*	68·5	66·4	57·7	41·8	35·7
23	48·5	48·6	42·2	51·4	62·0	78·6	60·0	66·7	*S*	61·0	46·7	*S*
24	50·5	46·6	41·0	48·8	68·8	*S*	54·4	68·8	66·7	63·7	46·0	32·8
25	50·0	*S*	*S*	52·8	66 6	71·8	62·8	73·0	63·7	60·0	*S*	Christ. Day.
26	47·0	42·0	40·5	49·4	66·5	71·8	65·5	*S*	...	58·0	36·7	39·0
27	42·5	43·8	44·7	58·8	*S*	75·5	66·8	65·5	68·7	56·0	32·1	40·7
28	*S*	47·8	44·8	51·7	58·0	65·7	71·0	68·5	64·1	*S*	30·0	26·4
29	38·8		45·0	*S*	63·8	69·3	*S*	68·5	65·0	56·4	38·0	34·8
30	36·8		47·0	61·0	71·7	63·0	66·0	73·8	*S*	57·0	48·0	*S*
31	42·2		55·0		70·0		67·8	68·0		53·0		35·7

The letter *S* denotes that the day was Sunday.

The upper limit of graduation of the 6-feet thermometer is 57°·50, at which point the uniform bore of the thermometer-tube is expanded into a small bulb. When the alcohol enters the bulb, the reading can only be obtained by rough estimation: and it is probable that the apparent irregularity of reading from day to day between July 11 and October 4 may be due to the difference of estimation by different observers.

ABSTRACT OF THE CHANGES OF THE DIRECTION OF THE WIND, AS DERIVED FROM OSLER'S ANEMOMETER.

By *direct* motion, in the following statements, is meant that the change of the direction of the wind was in the order N., E., S., W., N., &c.; by *retrograde* is meant in the order N., W., S., E., N., &c.

		d	h	
1848.	Dec.	31.	12.	The direction of the wind was N.N.E.
1849.	Jan.	31.	12.	,, ,, W.S.W., which implies apparent retrograde motion of 135°.
	Jan.	6.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Jan.	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Jan.	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of January was 945°.

		d	h	
1849.	Jan.	31.	12.	The direction of the wind was W.S.W.
	Feb.	28.	12.	,, ,, W.S.W., which implies no apparent change.
	Feb.	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Feb.	25.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	Feb.	27.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of February was 360°.

		d	h	
1849.	Feb.	28.	12.	The direction of the wind was W.S.W.
	March	31.	12.	,, ,, S.E., which implies apparent direct motion 112½°.
	March	17.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	March	19.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	March	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of March was 472½°.

		d	h	
1849.	March	31.	12.	The direction of the wind was S.E.
	April	30.	12.	,, ,, N.N.E., which implies apparent direct motion 247½°.
	April	12.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	April	14.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	April	18.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	April	25.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of retrograde motion in the month of April was 472½°.

		d	h	
1849.	April	30.	12.	The direction of the wind was N.N.E.
	May	31.	12.	,, ,, S.S.W., which implies apparent retrograde motion 180°.
	May	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	May	20.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	May	21.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	May	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	May	27.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	May	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	May	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of May was 900°.

		d	h	
1849.	May	31.	12.	The direction of the wind was S.S.W.
	June	30.	12.	,, ,, N., which implies apparent direct motion 157½°.
	June	5.	2½.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	June	9.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	June	11.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

CHANGES IN THE DIRECTION OF THE WIND—*continued.*

		d	h	
1849.	June	17.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	June	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	June	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of June was 2317½°.

		d	h	
1849.	June	30.	12.	The direction of the wind was N.
	July	31.	12.	,, ,, W.S.W., which implies apparent retrograde motion 112½°.
	July	16.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	July	21.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of July was 607½°.

		d	h	
1849.	July	31.	12.	The direction of the wind was W.S.W.
	August	31.	12.	,, ,, E., which implies apparent direct motion 202½°.
	August	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	August	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	August	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of August was 1282½°.

		d	h	
1849.	August	31.	12.	The direction of the wind was E.
	Sep.	30.	12.	,, ,, N.E., which implies apparent retrograde motion 45°.
	Sep.	1.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Sep.	3.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	Sep.	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Sep.	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of September was 675°.

		d	h	
1849.	Sep.	30.	12.	The direction of the wind was N.E.
	Oct.	31.	12.	,, ,, S.E., which implies apparent retrograde motion 270°.
	Oct.	3.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Oct.	6.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Oct.	16.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Oct.	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of October was 1170°.

		d	h	
1849.	Oct.	31.	12.	The direction of the wind was S.E.
	Nov.	30.	12.	,, ,, N.N.W., which implies apparent direct motion 202½°.
	Nov.	2.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	Nov.	23.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Nov.	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of November was 562½°.

		d	h	
1849.	Nov.	30.	12.	The direction of the wind was N.N.W.
	Dec.	31.	12.	,, ,, W., which implies apparent retrograde motion 67½°.
	Dec.	3.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	Dec.	10.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	Dec.	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of retrograde motion in the month of December was 427½°.

The whole excess of direct motion to the end of the year was 8392½°. = $23\frac{1}{3}^{R}$

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1849.

1849, Month.	Monthly Amount of Rain collected in the Gauge.			
	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.	Cylinder partly sunk in the Ground at the Royal Naval Schools.
	in.	in.	in.	in.
January	1·4	1·5	1·5	1·4
February	2·2	2·0	2·3	1·4
March	0·3	0·5	0·6	1·2
April	2·0	2·2	2·0	2·0
May	3·6	3·6	3·7	3·7
June	0·1	0·3	0·3	0·2
July	2·8	2·8	2·9	2·6
August	0·4	0·5	0·5	0·5
September	2·8	3·0	3·3	2·8
October	2·6	2·6	2·7	2·6
November	1·5	1·4	1·5	1·2
December	1·9	2·0	2·4	2·2
Sums	21·6	22·4	23·7	21·8

The gauges at the Royal Observatory were read at 9^h P. M., and the monthly records for the Royal Observatory terminate at 9^h P.M., on the last day of every month. The gauge at the Royal Naval Schools was read at noon on the last day of every month, except in three instances, to be spoken of presently; the results, therefore, are not strictly comparable in those instances in which rain has fallen after noon on the last day of the month. This circumstance occurred on February 28, when rain fell heavily between the hours of noon and 9^h P. M.; and this fall is attributed to the month of February in the record of the Royal Observatory, and to the month of March in the record of the Royal Naval Schools.

At the Royal Naval Schools the reading was not taken for April; but, at the end of May, the amount accumulated in the two months was found to be 5in.·7. In like manner, the reading was not taken at the end of July, and the amount collected at the end of August was found to be 3in.·1 for July and August; the reading was also not taken at the end of December, but at the end of January, 1850, the amount found in the gauge was 3in.·3. These numbers, when divided in proportion to the monthly falls at the Royal Observatory, give the separate numbers inserted in the table above.

Greenwich Mean Solar Time, or Limits of Time, 1849.	Sign of Electricity, as shewn by Dry Pile Apparatus.	READINGS OF ELECTROMETERS.					Time of Recovery after Discharge.	RONALDS' SPARK-MEASURER.		GALVANOMETER.	
		Single Gold Leaf of Dry Pile Apparatus.	Double Gold Leaf.	Volta (1).	Volta (2).	Henley.		Opening of Spark-measurer, or Length of Spark.	Corresponding Frequency.	The Head of the Needle towards A.	The Head of the Needle towards B.
d h m s h m s						° °		in.	sp. sec.	° °	° °
Jan. 21. 21. 23. 0 to 21. 37. 30	Neg.	B. R.	B. R.	B. R.	B. R.	0 to 40	Instantly	0·15	Several	15	..
21. 38. 0	Pos.	B. R.	B. R.	B. R.	B. R.	20	Instantly	0·10	3 in 1	..	3
21. 38. 30 to 21. 39. 0	Neg.	B. R.	B. R.	B. R.	B. R.	35	Instantly	0·15	Volley	40	..
21. 40. 0	...	0	0	0	0	0	..	..	...	..	..
21. 41. 0 to 21. 43. 0	Neg.	B. R.	B. R.	B. R.	B. R.	6 to 20	Instantly	0·11	Volley	13	..
21. 44. 0 to 21. 45. 0	Pos.	B. R.	B. R.	B. R.	B. R.	8 to 26	Instantly	0·10	3 in 1	..	3
21. 46. 0	...	0	0	0	0	0	..	..	...	..	..
Feb. 24. 1. 30. 0 to 1. 50. 0	Neg. & Pos.	B. R.	B. R.	B. R.	B. R.	0 to 18	Instantly	0·10	1 in 1 Slight vollies	..	0 to 5
1. 50. 0 to 2. 0. 0	Neg.	B. R.	B. R.	B. R.	B. R.	0 to 15	Instantly	0·06	3 in 1	5	..
Mar. 8. 1. 40. 0 to 1. 50. 0	...	suddenly cut off	B. R.	B. R.	B. R.	22	Instantly	..	Abundant	..	..
April 18. 23. 14. 0	Neg.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·05	1 in 1	..	..
19. 1. 34. 0 to 1. 35. 0	Pos.	B. R.	B. R.	B. R.	B. R.	12 to 14	Instantly	0·01	1 in 15	..	2
								0·02	1 in 5	..	..
May 26. 21. 0. 0	Neg.	B. R.	B. R.	B. R.	B. R.	20	Instantly	0·12	Frequent	..	..
June 5. 2. 32. 0	...	B. R.	B. R.	B. R.	B. R.	12	Instantly	0·11	Frequent	..	..
2. 34. 0	...	0	0	0	0	0	..	..	...	..	..
June 25. 2. 30. 0 to 2. 34. 0	Neg.	B. R.	B. R.	B. R.	B. R.	32 to 40	Instantly	0·16	Frequent	..	..
								0·15			
2. 35. 0	Neg.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·07	Frequent	..	..
2. 37. 0	...	0	0	0	0	..	..	..	...	..	..
June 25. 23. 35. 0	Neg.	B. R.	B. R.	B. R.	B. R.	42	Instantly	0·03	5 in 1	18	..
23. 37. 0	Neg.	B. R.	B. R.	B. R.	B. R.	50	Instantly	0·26	5 in 1	12	..
23. 39. 0 to 23. 40. 0	Neg.	B. R.	B. R.	B. R.	B. R.	40 to 42	Instantly	0·16	5 in 1	15	..
								0·20	3 in 1		
23. 41. 0	Neg.	B. R.	B. R.	B. R.	B. R.	40	Instantly	0·20	4 in 1	19	..
23. 43. 0	Neg.	B. R.	B. R.	B. R.	B. R.	30	Instantly	0·12	1 in 1	..	..
23. 44. 0	...	0	0	0	0	0	..	..	...	..	..
23. 46. 0	Neg.	B. R.	B. R.	B. R.	B. R.	30	Instantly	0·08	1 in 1	..	..
23. 49. 0	Neg.	B. R.	B. R.	B. R.	B. R.	30	Instantly	0·12	2 in 1	2	..
23. 51. 0 to 23. 54. 0	Neg.	B. R.	B. R.	B. R.	B. R.	10 to 30	Instantly	0·05	2 in 1	..	..
								0·13	2 in 1		
23. 56. 0	...	0	0	0	0	0	..	..	...	..	..
July 26. 1. 58. 10	Neg.	B. R.	B. R.	B. R.	B. R.	15	Instantly	0·02	3 in 2	..	..
1. 59. 0 to 2. 1. 30	Neg.	B. R.	B. R.	B. R.	B. R.	50 to 60	Instantly	0·03	2 in 1	4 to 30	..
2. 4. 0 to 2. 6. 0	Neg.	B. R.	B. R.	B. R.	B. R.	60	Instantly	0·25	1 in 1	3	..
2. 23. 0	Neg.	B. R.	B. R.	B. R.	B. R.	0 to 50	Instantly	..	...	..	..
2. 24. 0 to 2. 25. 35	Neg. & Pos.	B. R.	B. R.	B. R.	B. R.	50	Instantly	0·25	3 in 1	..	..
2. 27. 0 to 2. 33. 0	Neg.	B. R.	B. R.	B. R.	B. R.	50	Instantly	0·30	1 in 1	3	..
2. 34. 19	Neg.	B. R.	B. R.	B. R.	B. R.	50	Instantly	..	...	..	..
2. 49. 3 to 2. 49. 38	Pos.	B. R.	B. R.	B. R.	B. R.	40	Instantly	..	...	..	2
2. 50. 0	...	0	0	0	0	0	..	..	...	..	..
2. 50. 25	Pos.	B. R.	B. R.	B. R.	B. R.	15	Instantly	..	...	..	..
2. 54. 2	Pos.	B. R.	B. R.	B. R.	B. R.	3 to 50	Instantly	0·02	...	..	3
3. 0. 0	Pos.	B. R.	B. R.	B. R.	B. R.	..	Instantly	..	...	..	..
3. 6. 0 to 3. 15. 0	Pos.	B. R.	B. R.	B. R.	B. R.	..	Instantly	..	...	..	..
3. 16. 0	Neg.	B. R.	B. R.	B. R.	B. R.	..	Instantly	..	...	..	..

The letters B. R. denote that the gold leaf or straws have been deflected from the vertical *beyond the range* to which confidence can be placed in their indications. The greatest inclination considered trustworthy, for all the electrometers except Henley's, is about 20° from the vertical.

WIND. From Osler's Anemometer.		REMARKS
Direction.	Pressure in lbs. per square foot.	
	from lbs. to lbs.	
WSW	$\frac{1}{2}$ to $3\frac{1}{2}$	At 21h. 35m hail was falling.
WSW	$\frac{1}{2}$ to $3\frac{1}{2}$	
WSW	$\frac{1}{2}$ to $3\frac{1}{2}$	Heavy rain falling.
WSW	0 to 2	Snow and sleet falling.
WSW	1 to 3	Heavy rain falling.
WSW	$\frac{1}{2}$ to 3	The rain has ceased.
WSW	$\frac{1}{2}$ to 3	
N		
N		
NW	0 to 1	Hail falling.
NE	0 to 1	During the morning of this day rain, sleet, and snow fell frequently.
NE	$\frac{1}{2}$ to 4	
SW	..	At 22h. 7m rain was falling heavily at the rate of one inch in 26m. 40s, as measured by Crosley's rain-gauge.
W by S	..	At 2h. 30m thunder was heard frequently in the N., N.W., and W.
W by S	..	
ESE	..	At 2h. 29m heavy rain commenced falling, and continued some time.
ESE		
ESE		
WSW	..	At 23h. 30m thunder was heard in the N. E., and rain commenced falling.
WSW		
SW	..	Very heavy rain falling.
SW		
SW		
SW	..	The rain still continues.
SW		
SW		
SW	..	The rain has ceased.
SW		
SSW	..	A very long and loud clap of thunder in the N. to N.W. Between 1h and 2h frequent thunder in the N.
SSW	..	Distant thunder; at 2h. 1m. 2s lightning, followed by thunder in 16 seconds.
SSW		
SW	..	Several claps of thunder in the N.W. [was again Negative.
SW	..	The electricity suddenly changed to Positive, and a long clap of thunder was heard, after which the electricity
SW	..	Thunder heard frequently.
SSW	..	Lightning, followed by thunder in 16 seconds. [heavily.
WNW	$\frac{1}{2}$ to 3	At 2h. 48m rain commenced falling. At 2h. 48m. 45s lightning followed by thunder in 15 seconds; rain falling
WNW	$\frac{1}{2}$ to 3	Lightning followed by thunder in 15 seconds.
WNW	$\frac{1}{2}$ to 3	At 2h. 52m. 15s thunder; rain commenced falling. At 2h. 52m. 40s lightning followed by thunder in 15 seconds;
NW	..	A loud clap of thunder, and heavy rain continues falling. [heavy rain falling.
NNW	..	Rain very violent. At 3h. 6m lightning followed by thunder in three seconds.
NW		
W	..	Heavy rain still falling.

COLLINGWOOD
HERSCHEL

RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1850.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1850.)

APPENDIX.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS.

1850.

ROYAL OBSERVATORY, GREENWICH.

INDICATIONS

OF

MAGNETOMETERS.

1850.

For description of the three Magnetometers, the method of observing by the Telescope, and the method of reducing the observations, the reader is referred to the *Greenwich Magnetical and Meteorological Observations* for 1847, Introduction, page i to xlii; and to corresponding parts of the preceding Volumes.

During the year 1850, Telescope-Observations of the Magnetometers have usually been made four times every day (except Sundays); but, though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite, by which the DECLINATION MAGNET is observed, corresponding to the Astronomical Meridian, on January 21, February 12, May 3, 18, June 8, 15, July 4, 5, 8, 11, 15, September 4, 6, 17, October 7, November 4, 6, 29, and December 20.

Observations of the angle of torsion of the HORIZONTAL FORCE MAGNETOMETER were made on 1849, December 31, and 1850, January 1. The angle determined was 43°. 3′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on 1849, December 31, and 1850, January 1; and the general conclusion was, that the scale-readings were nearly identical and had nearly the usual value when the reading of the torsion-circle was 144°. 30′ (marked end West); and 230°. 0′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) is 144°. 30′.

The number used for the variation of horizontal force for a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·0020559.

The correction for temperature is $0 \cdot 0000809\ (t-32) + 0 \cdot 000000762\ (t-32)^2$, where t is the temperature in degrees of Fahrenheit's scale. This is not applied to any of the results of observation.

Observations of the times of vibration of the VERTICAL FORCE MAGNETOMETER in a vertical plane have usually been made three times a week. The adopted time of vibration till September 30 was $23^s \cdot 05$, and from October 1 was $22^s \cdot 01$.

Observations for the time of vibration in a horizontal plane were made in 1848, July, and the time was found to be $24^s \cdot 0164$ from 7000 vibrations. The values of the disturbing force, in terms of the whole vertical force, for one division of the scale, are inferred to be 0·000667 till September, and 0·000732 from October till the end of the year; and these numbers are used in their respective periods.

The correction for temperature is $0 \cdot 00013845 \times (t-32) + 0 \cdot 000004054 \times (t-32)^2$. This is not applied to any of the results of observation.

The methods adopted in the use of the Photographic Apparatus, in the determinations of zeros both for time and for magnetic indications, and in the translation into numbers of the indications given by the Photographic Traces, for arbitrary times, are in every respect the same as those described in the Addendum to the Introduction to the Greenwich Magnetical and Meteorological Observations, 1847, pages lxxxiii to xc.

It is proper, however, to mention that, in measuring the ordinates of the Vertical Force Curves, the same difficulty that is mentioned in the two preceding volumes has still occasionally been felt. Occasionally, without any apparent cause, the curve is dislocated; one part being raised above or depressed below the contiguous part, in the direction of the ordinate, usually by small quantities, but, at times, by a considerable quantity. In all cases this displacement is accompanied with vibration, the original position being at the extremity of the vibration, and the new position being at the centre of the arc: showing that there has been no want of delicacy of the movement, and that the change has been

precisely the same as would be caused by the quiet application of a small weight upon one end of the magnet. To combine these dislocated parts, a small machine has been prepared, by means of which a piece of tracing-paper can be slid, parallel to itself, in the direction of the ordinates; and the various portions of the curve are traced on this paper in such a manner that their ends are properly joined. This traced curve is then used for the measure of the ordinates. I conceive that these measures, for a single sheet, are perfectly and accurately comparable: although it is evident that the results on one sheet cannot always be compared with those on another.

In general the ordinates of the photographic curves have been measured only at the times of the successive maxima and minima values; but, on days in which the unsteadiness of the magnets was strongly marked, the ordinates have been measured at well-marked bends of the curve: so that a reader, laying down a succession of points by means of the given times as abscissæ and the given measures of force as ordinates, and connecting these points by straight lines, will very nearly reproduce the original curves.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	h m		Jan. 1 h m			°	°
				0. 40	·01565	1		46 ·4
				3. 25	·01470	3		49 ·0
				9. 55:	·01062	9		48 ·0
				13. 50:	·01124	21		48 ·5
				16. 20:	·01105			
				16. 50	·01160			
				23. 50:	·01233			
Jan. 2		Jan. 2		Jan. 2				
3. 40	22. 27. 45* (†)	3. 40	·1065* (†)	0. 50	·01320	1		50 ·0
				2. 48	·01340	3	51 ·0	52 ·0
9. 40	22. 3* (†)	9. 40	·1074* (†)	4. 0	·01288	9	49 ·0	53 ·0
				4. 20	·01355	21	48 ·0	52 ·0
21. 45	23. 54* (†)	21. 45	·1081* (†)	23. 55:	·01720			
Jan. 3		Jan. 3		Jan. 3				
1. 40	22. 28. 26* (†)	1. 40	·1023* (†)	0. 30	·01718	1	51 ·0	52 ·8
				2. 35	·01694	3	49 ·0	52 ·0
3. 40	25. 4* (†)	3. 40	·1023* (†)	3. 20	·01748	9	47 ·0	51 ·5
				4. 14	·01733	21	46 ·0	48 ·0
9. 40	13. 21* (†)	9. 40	·1040* (†)	4. 40	·01813			
				10. 40	·01820			
21. 40	25. 38* (†)	21. 40	·1049* (†)	15. 20	·01735			
				23. 30	·01772			
Jan. 4		Jan. 4		Jan. 4				
1. 40	22. 30. 0* (†)	1. 40	·1049* (†)	1. 0	·01698	1	50 ·0	51 ·0
				9. 0:	·01170	3	50 ·0	53 ·0
3. 40	27. 7* (†)	3. 40	·1046* (†)	16. 47	01730	9	50 ·0	54 ·0
				22. 10:	·01640	21	40 ·0	43 ·0
9. 40	24. 12* (†)	9. 40	·1049* (†)	23. 58	·01658			
21. 40	24. 36* (†)	21. 40	·1061* (†)					
Jan. 5		Jan. 5		Jan. 5				
1. 40	22. 36. 21* (†)	1. 40	·1062* (†)	1. 0	·01638	1	47 ·0	48 ·0
				8. 50:	·00922	3	50 ·0	52 ·0
3. 40	34. 48* (†)	3. 40	·1067* (†)	18. 40	·01605	9	49 ·0	52 ·0
				23. 30	·01554	22	39 ·0	41 ·0
9. 40	23. 6* (†)	9. 40	·1059* (†)					
22. 55	32. 38* (†)	22. 55	·1064* (†)					
Jan. 6		Jan. 6		Jan. 6				
12. 5	22. 29. 0* (†)	12. 5	·1079* (†)	0. 30	·01515	11	38 ·0	40 ·0
				4. 30	·01478	21	35 ·0	37 ·0
21. 40	29. 41* (†)	21. 40	·1079* (†)	8. 20:	·01268			
				16. 5	·01460			
				23. 0	·01412			
Jan. 7 h m	° ′ ″	Jan. 7 h m		Jan. 7 h m				
1. 40	22. 35. 29* (†)	1. 40	·1079* (†)	1. 30	·01255	1	38 ·0	41 ·4
				9. 52:	·00432	3	40 ·0	44 ·0
3. 40	35. 12* (†)	3. 40	·1075* (†)	23. 30:	·01340	9	41 ·0	44 ·0
						21	32 ·0	37 ·0
9. 40	27. 37* (†)	9. 40	·1067* (†)					
21. 40	28. 42* (†)	21. 40	·1079* (†)					
Jan. 8		Jan. 8		Jan. 8				
1. 40	22. 32. 6* (†)	1. 40	·1078* (†)	1. 0	·01167	1	39 ·0	42 ·0
				7. 40	·00445	3	42 ·0	46 ·0
3. 40	31. 35* (†)	3. 40	·1072* (†)	10. 8:	·00448	9	42 ·0	45 ·5
				23. 40	·00615	21	39 ·0	44 ·5
9. 40	27. 43* (†)	9. 40	·1065* (†)					
21. 40	29. 16* (†)	21. 40	·1071* (†)					
Jan. 9		Jan. 9		Jan. 9				
1. 40	22. 32. 29* (†)	1. 40	·1088* (†)	0. 0	·00618	1	39 ·0	44 ·0
				2. 23	·00665	3	42 ·0	46 ·0
3. 40	32. 11* (†)	3. 40	·1069* (†)	9. 55	·00532	9	44 ·0	47 ·5
				23. 45	·01015	21	40 ·0	44 ·8
9. 40	28. 13* (†)	9. 40	·1056* (†)					
21. 40	27. 17* (†)	21. 40	·1069* (†)					
Jan. 10		Jan. 10		Jan. 10				
1. 40	22. 29. 44* (†)	1. 40	·1064* (†)	1. 0	·01005	1	43 ·0	46 ·5
				9. 14:	·00530	3	45 ·0	49 ·0
3. 40	28. 43* (†)	3. 40	·1068* (†)	23. 30	·01292	9	44 ·0	48 ·8
						21	38 ·0	43 ·5
9. 40	25. 59* (†)	9. 40	·1060* (†)					
21. 40	27. 46* (†)	21. 40	·1061* (†)					
Jan. 11		Jan. 11		Jan. 11				
2. 30	22. 32. 20	2. 13	·1072	1. 0:	·01455	1	40 ·0	44 ·0
9. 25	25. 0	8. 42	·1054	11. 0:	·00985	3	42 ·0	45 ·0
12. 45	30. 0	20. 36	·1064	23. 30:	·01426	9	44 ·0	47 ·5
21. 10:	27. 0	23. 55	·1053			21	38 ·0	44 ·0
23. 55	30. 5							
Jan. 12		Jan. 12		Jan. 12				
1. 0	22. 32. 5	1. 0	·1056	1. 0	·01405	1	40 ·0	44 ·8
3. 12	32. 20	5. 0	·1072	11. 20	·00910	3	44 ·0	46 ·0
	(†)	8. 0	·1042	23. 25:	·01204	9	43 ·5	48 ·0
7. 20	32. 25		(†)			22	39 ·0	43 ·0
8. 0	32. 30	9. 40	·1069* (†)					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Till January 11 the time-piece for the Declination and Horizontal Force Magnets was away for repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Jan. 12	° ′ ″	Jan. 12		h m			°	°
h m		h m						
8. 55	22. 15. 40	13. 0	·1050					
10. 40	26. 50	20. 30	·1055					
13. 15	24. 20		(†)					
16. 55	27. 50	23. 0	·1046*					
	(†)							
19. 20	28. 10							
23. 25	31. 20							
Jan. 13		Jan. 13		Jan. 13				
0. 0	22. 34. 0	0. 0	·1038	0. 0	·01220	12	37 ·0	40 ·0
6. 25	33. 20	1. 45:	·1050	5. 0	·01460	21	36 ·0	39 ·8
10. 30	28. 0	4. 5:	·1040	7. 25	·01420			
12. 30	28. 50	8. 38	·1063	10. 6	·01485			
14. 0	24. 10	17. 30:	·1060	23. 20:	·01388			
16. 15	26. 50	23. 20	·1057					
23. 55	31. 20							
Jan. 14		Jan. 14		Jan. 14				
1. 0	22. 32. 50	1. 0	·1066	1. 0	·01330	1	37 ·0	40 ·0
21. 40	25. 50	4. 35:	·1074	9. 56:	·00755	3	40 ·0	43 ·0
23. 55	30. 0	7. 50	·1060	23. 55	·01315	9	40 ·0	45 ·0
		18. 0	·1068			21	34 ·5	42 ·0
		23. 30	·1062					
Jan. 15		Jan. 15		Jan. 15				
0. 50	22. 31. 15	1. 58	·1072	0. 30	·01335	1	37 ·0	41 ·0
6. 0	27. 0	11. 30	·1061	2. 0:	·01354	3	40 ·0	45 ·0
12. 30	28. 0	17. 40	·1070	10. 50:	·00928	9	40 ·0	46 ·0
22. 35	27. 15	23. 40	·1055	23. 55:	·01148	21	37 ·0	42 ·0
23. 35	28. 10							
Jan. 16		Jan. 16		Jan. 16				
1. 40	22. 33. 0	1. 0	·1056	1. 0	·01112	1	40 ·0	45 ·0
10. 25	27. 40	4. 0	·1071	5. 55	·00600	3	44 ·0	48 ·0
10. 50	22. 55	10. 31	·1046	11. 50:	·00555	9	44 ·0	49 ·0
14. 55:	28. 0	11. 0	·1060	23. 30:	·00815	21	40 ·5	46 ·0
22. 10	25. 30	16. 35	·1052					
23. 55	29. 0	17. 15	·1060					
		23. 30	·1045					
Jan. 17		Jan. 17		Jan. 17				
0. 50	22. 31. 0	0. 30	·1050	1. 0	·00814	1	43 ·0	49 ·0
10. 40	25. 50	4. 48	·1066	4. 0	·00608	3	48 ·0	50 ·0
22. 30:	27. 15	10. 28	·1056	5. 43	·00680	9	47 ·0	50 ·5
23. 55	29. 40	10. 38	·1063	6. 40	·00610	21	42 ·5	47 ·5
		11. 40	·1052	23. 55	·01130			
		20. 30	·1069					
		23. 58	·1047					
Jan. 18		Jan. 18		Jan. 18				
1. 0	22. 33. 5	1. 0	·1057	0. 40	·01335	1	44 ·0	48 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Jan. 18	° ′ ″	Jan. 18		Jan. 18			°	°
h m		h m		h m				
2. 7	22. 37. 40	10. 20	·1051	2. 5	·01346	3	48 ·0	50 ·0
3. 45	31. 25	10. 24	·1074	8. 10:	·00965	9	47 ·0	50 ·5
10. 20	28. 0	11. 10	·1051	13. 30	·00995	21	45 ·5	50 ·0
11. 10	24. 30	13. 43	·1062	14. 22	·00888			
11. 42	27. 30	14. 27	·1024	14. 45	·00939			
13. 5	22. 30	14. 53	·1053	15. 8	·00928			
13. 18	23. 55	15. 12	·1035	19. 40	·01046			
13. 31	22. 30	15. 42	·1057	23. 55	·00930			
13. 58	28. 10	16. 50	·1034					
14. 26	17. 0	18. 25	·1053					
15. 43	22. 5	19. 17	·1031					
16. 0	19. 25	20. 0	·1058					
16. 40	26. 0	22. 14	·1031					
17. 3	22. 50	23. 50	·1037					
19. 40	31. 50							
21. 42	26. 10							
23. 55	34. 0							
Jan. 19		Jan. 19		Jan. 19				
1. 20	22. 37. 0	1. 30	·1030	1. 0	·01000	1	50 ·0	52 ·0
6. 58	29. 40	3. 5	·1046	3. 12	·00758	3	53 ·0	55 ·0
9. 20	27. 0	7. 5	·1027	5. 30	·00820	9	49 ·5	55 ·0
10. 0	12. 30	7. 50	·1048	7. 0	·00784	23	41 ·0	47 ·0
10. 25	16. 40	8. 10	·1029	7. 30	·00852			
11. 3	11. 50	11. 30	·1025	20. 40:	·01534			
11. 50	27. 0	12. 7	·1040	23. 55:	·01488			
12. 42	17. 45	13. 25	·1028					
14. 5	24. 45	14. 42	·1046					
15. 28	19. 0	15. 20	·1035					
16. 2	23. 58	18. 5	·1060					
17. 5	21. 30	23. 28	·1014					
18. 5	27. 55							
18. 40	23. 55							
23. 25	31. 25							
Jan. 20		Jan. 20		Jan. 20				
1. 0	22. 35. 30	0. 30	·1023	1. 30:	·01448	8	38 ·0	45 ·0
1. 10	36. 50	3. 8	·1054	5. 15:	·01548	21	37 ·0	40 ·0
2. 30	37. 0	4. 40	·1036	23. 30:	·01288			
4. 14	32. 30	8. 12	·1049					
4. 39	34. 0	18. 30:	·1056					
5. 20	29. 25	23. 55	·1044					
7. 10	34. 10							
10. 28	24. 5							
15. 3	30. 55							
20. 40:	28. 55							
23. 58	32. 35							
Jan. 21		Jan. 21		Jan. 21				
1. 0	22. 34. 5	1. 0	·1051	1. 0	·01240	1	40 ·0	42 ·0
4. 0	27. 10	4. 10	·1067	10. 26:	·00566	3	45 ·0	47 ·0
21. 0:	26. 25	11. 15	·1044	23. 20:	·00984	9	43 ·0	45 ·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40m in Gottingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Jan. 21		Jan. 21						
h m	° ′ ″	h m		h m			°	°
23. 55:	22. 31. 0	19. 0:	·1062			21	40 ·0	43 ·0
		23. 58	·1048					
Jan. 22		Jan. 22		Jan. 22				
1. 0	22. 31. 0	1. 0	·1050	1. 0	·00968	1	45 ·0	47 ·0
12. 40	24. 50	11. 15	·1049	4. 40	·00640	3	48 ·0	50 ·0
21. 40:	25. 50	18. 30:	·1059	5. 55:	·00710	9	45 ·0	49 ·0
23. 58	29. 50	23. 15	·1028	8. 30:	·00652	21	42 ·5	47 ·0
		23. 23	·1049	22. 20	·00984			
		23. 37	·1037					
Jan. 23		Jan. 23		Jan. 23				
0. 0	22. 29. 55	1. 10	·1062	1. 30	·00880	1	49 ·0	51 ·0
0. 35	35. 30	3. 40	·1065	3. 15	·00720	3	50 ·0	52 ·0
1. 0	31. 55	6. 37	·1038	4. 35	·00765	9	49 ·0	52 ·5
1. 30	36. 10	8. 37	·1044	6. 45:	·00708	21	43 ·0	47 ·0
2. 45	31. 50	9. 10	·1030	9. 30	·00765			
9. 20	22. 20	9. 30	·1044	21. 5	·01354			
13. 14	28. 5	15. 0	·1062	23. 30	·01345			
14. 0	26. 25	22. 58	·1035					
14. 30	27. 30	23. 50	·1049					
14. 50	33. 12							
15. 55	25. 55							
23. 55	30. 45							
Jan. 24		Jan. 24		Jan. 24				
1. 0	22. 33. 30	1. 0	·1054	1. 0	·01490	1	47 ·0	49 ·0
9. 40	27. 5	9. 53	·1052	11. 0:	·01045	3	49 ·0	52 ·0
10. 5	20. 30	10. 15	·1076	22. 20:	·01500	9	48 ·0	50 ·0
11. 38	27. 10	11. 15	·1055	23. 55	·01465	21	43 ·0	47 ·0
14. 15	23. 45	19. 0	·1052					
14. 53	27. 40	23. 50	·1042					
18. 20	28. 40							
22. 14:	27. 30							
23. 58	29. 20							
Jan. 25		Jan. 25		Jan. 25				
1. 0	22. 33. 50	1. 35	·1046	0. 50	·01394	1	48 ·0	50 ·0
4. 50	28. 0		***	4. 58	·00860	3	50 ·0	52 ·0
7. 42	26. 50	2. 40	·1012	6. 0:	·00890	9	52 ·0	56 ·0
9. 10	24. 45		***	13. 30:	·00775	21	52 ·5	56 ·5
11. 45	26. 55	3. 15	·1054	19. 30:	·00900			
12. 17	20. 55		***	23. 40:	·00832			
13. 0	26. 5	4. 0	·1026					
13. 34	17. 0		***					
14. 0	18. 50	5. 0	·1058					
14. 20:	14. 35		***					
14. 44	21. 0	5. 40	·1032					
15. 30	12. 58		***					
17. 46	27. 45	6. 30	·1040					
20. 30	26. 0		***					
23. 45	30. 58	8. 50	·1035					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
		Jan. 25		Jan. 25				
h m	° ′ ″	h m		h m			°	°
		9. 15	·1050					
			***					
		12. 5	·1018					
			***					
		12. 20	·1050					
		16. 10	·1032					
		16. 55	·1044					
		17. 45	·1033					
		23. 45	·1016					
Jan. 26		Jan. 26		Jan. 26				
0. 50	22. 30. 45	0. 40	·1025	0. 30	·00850	1	54 ·0	56 ·0
1. 47	34. 0		***	5. 40:	·00902	3	56 ·0	58 ·0
8. 52	23. 50	5. 20	·1021	7. 30:	·00852	9	51 ·0	53 ·8
9. 21	26. 50		***	14. 25	·01526	22	38 ·0	41 ·0
10. 14	27. 50	13. 30	·1051	23. 25:	·01345			
10. 30	25. 20	23. 28	·1046					
13. 0:	28. 58							
23. 25	31. 10							
Jan. 27		Jan. 27		Jan. 27				
0. 0	22. 32. 5	0. 30	·1043	0. 0	·01344	11	40 ·0	43 ·0
2. 30	38. 0	2. 30	·1054	5. 25:	·01068	21	40 ·0	44 ·0
5. 46	31. 50	5. 57	·1033	9. 15:	·00895			
6. 5	26. 0	6. 7	·1047	13. 10	·01325			
6. 14	26. 40	6. 17	·1040	22. 55	·01246			
6. 20	21. 55	6. 28	·1051					
6. 35	28. 30	6. 42	·1034					
6. 48:	25. 30	11. 51	·1057					
8. 5	28. 55	12. 55	·1030					
12. 15:	21. 0	19. 0	·1048					
12. 33	22. 0	22. 50	·1038					
12. 50:	21. 5							
13. 28	25. 50							
15. 37	27. 50							
16. 14:	24. 40							
22. 55	31. 25							
Jan. 28		Jan. 28		Jan. 28				
0. 0	22. 33. 0	0. 0	·1036	0. 0	·01240	1	44 ·0	47 ·0
1. 35	37. 20	4. 30	·1032	5. 8	·00880	3	46 ·0	47 ·0
4. 55	32. 55	4. 58	·1017	5. 30	·00920	9	48 ·0	51 ·0
5. 25:	28. 0	5. 25	·1038	22. 30:	·00972	21	52 ·0	57 ·0
5. 36	30. 30	6. 20	·1038					
6. 50	31. 25	7. 4	·1015					
7. 2	34. 40	16. 52	·1034					
7. 27	30. 0	23 30	·1013					
13. 0	25. 0							
23. 55	30. 10							
Jan. 29		Jan. 29		Jan. 29				
1. 12:	22. 35. 25	1. 0	·1014	1. 0	·00884	1	55 ·8	58 ·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Jan. 29		Jan. 29		Jan. 29				
h m	° ′ ″	h m		h m			°	°
8. 0	22. 28. 20	5. 15:	·1015	5. 15:	·00895	3	55 ·0	57 ·0
8. 30	18. 10	8. 20	·1027	17. 10	·01540	9	53 ·0	57 ·5
9. 19	25. 30	8. 37	·1042	23. 55	·01534	21	48 ·5	52 ·0
14. 0:	28. 0	9. 25	·1024					
23. 53	30. 55	17. 42	·1045					
		23. 58	·1027					
Jan. 30		Jan. 30		Jan. 30				
1. 25	22. 34. 5	1. 0	·1029	1. 0	·01463	1	50 ·0	53 ·0
4. 40	26. 45	3. 20	·1040	8. 0:	·00892	3	55 ·0	57 ·0
8. 0	30. 0	9. 10	·1024	14. 35	·01442	9	50 ·0	53 ·0
9. 28	24. 58	10. 55	·1031	23. 30:	·01350	21	43 ·0	48 ·0
10. 52	27. 0	11. 30	·1053					
11. 5	18. 20	12. 0	·1035					
11. 48	29. 50	23. 30	·1034					
12. 10	26. 0							
23. 55	30. 50							
Jan. 31		Jan. 31		Jan. 31				
1. 0	22. 33. 0	0. 30	·1036	0. 30	·01365	1	43 ·5	48 ·0
10. 0	22. 50	2. 30	·1045	19. 52	·00770	3	47 ·0	49 ·0
12. 30	29. 50	7. 15	·1024	23. 30	·00822	9	44 ·0	48 ·5
15. 45	23. 48	9. 58	·1036			21	49 ·0	54 ·5
23. 55	28. 45	10. 5	·1057					
		10. 20	·1044					
		10. 57	·1054					
		11. 6	·1036					
		11. 13	·1047					
		11. 20	·1032					
		19. 0	·1043					
		23. 58	·1014					
Feb. 1		Feb. 1		Feb. 1				
0. 35	22. 30. 45	0. 42	·1018	1. 0	·00840	1	55 ·0	57 ·0
2. 50	37. 30	5. 30	·1009	6. 30:	·01042	3	56 ·0	58 ·0
3. 3	35. 0	7. 30	·1019	18. 15:	·00922	9	57 ·5	61 ·0
3. 8	38. 45	8. 43	·1014	23. 40:	·01220	21	55 ·5	59 ·0
3. 26	34. 0	10. 20	·1034					
7. 5:	30. 0	11. 30	·1024					
8. 7	26. 0	16. 50	·1042					
8. 38	28. 0	17. 43	·0996					
10. 12	25. 0	18. 33	·1040					
10. 31	28. 5	19. 58	·1038					
12. 20	28. 58	21. 37	·1006					
17. 18	26. 25	23. 45	·1002					
18. 0	37. 35							
18. 30	29. 45							
19. 10:	26. 10							
20. 58	28. 0							
21. 27	33. 10							
21. 40	30. 20							
23. 55	24. 35							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 2		Feb. 2		Feb. 2				
h m	° ′ ″	h m		h m			°	°
0. 20	22. 35. 0	0. 18	·0987	0. 30	·01210	1	58 ·0	60 ·0
1. 56	42. 10	6. 10	·1003	6. 22	·00096	3	60 ·0	62 ·0
4. 30	37. 30	6. 42	·1039	7. 10	·00982	9	56 ·0	59 ·0
4. 45	40. 10	7. 42	·0987	8. 20:	·01020	22	53 ·0	57 ·0
5. 8	35. 40	8. 40	·1001	9. 14	·00995			
5. 25	37 0	8. 50	·1031	23. 30	·01510			
5. 38:	27. 10	9. 20	·0980					
6. 12:	28. 15	10. 38	·1016					
6. 33	23. 25	12. 33	·1003					
7. 0	30. 20	13. 32	·1020					
7. 10	25. 55	17. 0	·1008					
7. 28	28. 58	19. 35	·1023					
8. 0	26. 15	23. 0	·1006					
8. 20	23. 55							
8. 40	17. 55							
8. 52	27. 10							
9. 8	24. 0							
9. 14	25. 30							
9. 30	6. 55							
10. 18	26. 55							
11. 20	25. 35							
11. 36	22. 48							
13. 0	29. 0							
13. 40:	26. 0							
14. 10	27. 30							
14. 54:	26. 0							
15. 20:	27. 40							
15. 40:	25. 30							
23. 50	16. 0							
Feb. 3		Feb. 3		Feb. 3				
0. 0	22. 33. 30	0. 0	·1019	0. 0	·01555	9	55 ·0	58 ·5
1. 10	36. 45	2. 0	·1000	2. 50	·01593	21	45 ·0	48 ·0
1. 18	44. 40	2. 48	·1029	8. 0:	·01330			
1. 34:	43. 0	4. 45	·1032	9. 45	·01442			
1. 50	46. 20	5. 30	·1023	22. 57	·01230			
2. 40	35. 0	13. 42	·1026					
9. 40	26. 40	14. 36	·1043					
10. 0	23. 5	16. 2	·1021					
10. 42	27. 20	21. 0	·1035					
11. 22:	25. 45	23. 5	·1012					
11. 40	26. 40							
12. 0	31. 58							
12. 30	24. 50							
13. 50	27. 45							
14. 10	25. 0							
14. 40	29. 0							
16. 0	23. 50							
23. 45	32. 58							
	(†)							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Feb. 4		Feb. 4		Feb. 4				
h m	° ′ ″	h m		h m			°	°
1.40	22.33.44	1.40	·1022*	1. 0	·01430	1	49·0	52·0
	(†)		(†)	9.45:	·00800	3	53·0	55·0
3.40	31.33	3.40	·1028*	21.20:	·01113	9	50·0	53·0
	(†)		(†)	23.55	·01085	21	48·5	53·0
9.40	27.45	10. 0	·1028					
19. 0:	26.55	18.40	·1038					
23.42	33.40	23.40	·1011					
Feb. 5		Feb. 5		Feb. 5				
0. 0	22.33.20	0. 0	·1006	0. 0	·01085	1	50·0	53·0
7.55	27. 0	7.50	·1036	5.20:	·00855	3	54·0	56·0
8.25	14. 0	8.10	·1018	23. 0	·01402	9	50·0	55·0
8.34	14. 0	8.40	·1050			21	48·0	52·0
9.45	27. 5	16. 0:	·1041					
19.10	25. 0	23.20	·1025					
	(†)							
21.40	27.52*							
	(†)							
Feb. 6		Feb. 6		Feb. 6				
1.57	22.36. 0	0. 0	·1026	0. 0	·01410	1	50·0	55·0
4.58	22.55	4.42	·1035	8.20:	·01010	3	53·0	56·0
5.23	23. 5	5. 2	·1022	15.35	·01386	9	49·5	54·0
5.50	29.55	5.40	·1045	22. 0:	·01310	21	40·0	47·0
6.20	27.55	9.50	·1031					
8.50	32.45	10. 0	·1019					
9.10	26.50	10.50	·1045					
9.54	32.45	11.15	·1025					
10.43	19. 5	11.37	·1045					
10.58	22.10	12.10	·1017					
11.15	18. 0	12.48	·1033					
11.45	26.10	23.15	·1028					
12.20	19.30							
13.38	31.30							
19.30:	27.20							
23.15	31. 0							
Feb. 7		Feb. 7		Feb. 7				
0. 0	22.31.30	0. 0	·1030	0. 0	·01350	1	49·0	51·0
10.30:	27.20	6.15	·1043	4.40	·00835	3	55·0	57·0
21.30	24 20	16.35	·1047	6.20	·00892	9	51·0	55·0
23.45	29. 0	20.12	·1049	8.30	·00825	21	46·0	48·0
		23.20	·1032	16.40	·01240			
				22.23	·01190			
Feb. 8		Feb. 8		Feb. 8				
0. 5	22.30. 0	0. 0	·1030	0. 0	·01348	1	52·0	55·0
2.50	35.30	1.56	·1039	4.55	·00860	3	55·0	57·0
8.57	23.50	2.20	·1020	6.25:	·00920	9	55·0	57·0
9.37	22. 0	4.45	·1045	10.30:	·00815	21	52·0	55 0
12.10	26.30	6.30	·1023	23.30	·01090			
13.45	27. 0	9.12	·1030					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Feb. 8		Feb. 8						
h m	° ′ ″	h m		h m			°	°
14. 5	22.31. 0	10. 0	·1056					
15.10	29. 0	10.55	·1032					
21. 0	23.55	18.40	·1042					
23.55	31. 0	23.10	·1017					
Feb. 9		Feb. 9		Feb. 9				
0.30	22.32.55	0.30	·1017	0.30	·01090	1	56·0	58·0
4.15	26.45	3.58	·1025	6.55:	·00938	3	56·0	59·0
5. 8	29.10		(†)	13.20	·01384	9	50·0	53·0
9.30	23.30	10. 9	·1034	23.10	·01250	22	45·0	48·0
10.28	25.00	11. 2	·1048					
10.48	21.20	11.28	·1038					
14. 0:	27.55	19.30	·1048					
23.40	26.40	23.10	·1034					
Feb. 10	(†)	Feb. 10	(†)	Feb. 10				
9.10	22.25.38*	12. 0	·1040	0. 0	·01150	9	49·0	52·0
	(†)	19.30:	·1049	10.30:	·00680	21	46·5	48·0
11.40:	25.30	23.30	·1021	21.40:	·01140			
21.10:	24.25			23.22	·01108			
23.55	30. 5							
Feb. 11		Feb. 11		Feb. 11				
1. 0	22.31.25	1. 0	·1028	1. 0	·00920	1	48·0	52·0
13.10	25.15	9.45:	·1046	6.37	·00741	3	50·0	53·0
13.32	29. 0	22.30	·1032	8.15	·00618	9	48·0	50·0
15.35	23.30			23.20	·01180	21	44·0	48·0
23.50	30. 0							
Feb. 12		Feb. 12		Feb. 12				
0. 0	22.30. 0	0. 0	·1032	0. 0	·01022	1	46·0	48·0
2.30	33.50	2.37	·1046	7.30:	·00668	3	49·5	50·5
6.45	30. 0	7.40	·1031	18.53	·01198	9	48·0	50·0
7.15	32.15	8.35	·1042	23.12	·01154	21	40·0	43·0
8.50	26. 0	9.45	·1018					
9.15	26.45	10.50	·1032					
9.45	18.50	13.42	·1038					
14. 0	25.30	14.18	·1034					
15. 5	19. 0	14.45	·1034					
16.20	21.20	16.45	·1049					
23.45	30. 0	23.40	·1030					
Feb. 13		Feb. 13		Feb. 13				
1.20	22.31.30	1.30	·1029	1.50	·01146	1	48·0	50·0
13.30	20. 0	4. 8	·1049	5.40	·00747	3	50·0	52·0
23.50	31. 0	10.30	·1032	6.40	·00774	9	47·0	51·0
		18.30	·1050	9. 0:	·00692	21	41·0	45·5
		23. 0	·1019	17. 0	·01230			
				21.20	·01245			
				23.50	·01198			

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

February 4, till 10^{h}, the time-piece of the Declination and Horizontal Force Photographic Cylinder was away for repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 14	° ′ ″	Feb. 14		Feb. 14			°	°
h m		h m		h m				
0. 0	22. 31. 5	0. 0	·1021	0. 30	·01173	1	46 ·0	48 ·8
2. 0	34. 50	11. 30:	·1034	5. 36	·00763	3	48 ·0	52 ·0
7. 0	25. 25	23. 20	·1007	6. 50:	·00833	9	51 ·0	55 ·0
14. 50	28. 0			11. 0:	·00810	21	53 ·5	57 ·0
20. 35	23. 30			23. 30:	·00835			
23. 55	30. 0							
Feb. 15		Feb. 15		Feb. 15				
0. 0	22. 30. 40	0. 0	·1006	0. 0	·00848	1	56 ·0	59 ·0
1. 48	34. 35	10. 43	·1029	6. 30:	·00981	3	58 ·0	60 ·0
14. 25	23. 50	20. 8	·1036	8. 45:	·00933	9	57 ·0	59 ·0
23. 40	30. 30	23. 0	·1016	20. 30	·01400	21	53 ·0	55 ·0
				22. 30:	·01408			
				23. 45	·01385			
Feb. 16		Feb. 16		Feb. 16				
0. 0	22. 32. 0	0. 0	·1015	0. 0	·01375	1	55 ·0	59 ·0
2. 30	34. 10	13. 40	·1035	4. 30	·01070	3	57 ·0	59 ·0
13. 5:	23. 40	14. 25	·1045	10. 10	·01550	9	55 ·0	59 ·0
14. 8	27. 0	15. 8	·1034	23. 20	·01318	22	45 ·0	49 ·0
14. 45	24. 20	20. 30	·1049					
18. 50	28. 0	22. 30	·1032					
23. 20	29. 0							
Feb. 17		Feb. 17		Feb. 17				
0. 0	22. 31. 30	0. 0	·1028	0. 0:	·01317	8	50 ·0	52 ·0
1. 52	33. 55	19. 0	·1044	17. 30	·00782	21	50 ·0	53 ·0
13. 39	24. 30	23. 0	·1019	23. 0	·00855			
14. 8:	27. 0							
14. 40	24. 30							
20. 30	24. 55							
23. 18	29. 0							
Feb. 18		Feb. 18		Feb. 18				
0. 0	22. 31. 35	0. 0	·1022	0. 0	·00836	1	55 ·0	58 ·0
1. 45	33. 40	9. 8	·1040	1. 58	·00780	3	56 ·0	58 ·0
19. 40	26. 40	9. 25	·1053	20. 40:	·01488	9	57 ·0	59 ·5
20. 25:	25. 0	9. 40	·1041	23. 30:	·01480	21	52 ·5	56 ·0
21. 0:	26. 10	10. 2	·1049					
23 47	29. 0	10. 10	·1036					
		10. 30	·1059					
		10. 38	·1040					
		16. 30	·1044					
		22. 50	·1026					
Feb. 19		Feb. 19		Feb. 19				
0. 0	22. 30. 0	0. 0	·1018	0. 0	·01476	1	57 ·0	59 ·0
2. 20	32. 20	16. 37	·1038	9. 42:	·00998	3	58 ·0	60 ·0
5. 0	28. 40	23. 20	·1033	23. 30:	·01236	9	56 ·0	58 ·0
21. 10	24. 0					21	53 ·5	57 ·0
23. 25	28. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 20	° ′ ″	Feb. 20		Feb. 20			°	°
h m		h m		h m				
0. 0	22. 30. 0	0. 0	·1027	0. 0	·01235	1	57 ·0	59 ·0
1. 15:	32. 30	5. 38	·1035	7. 0	·00955	3	57 ·0	59 ·5
1. 40	31. 20	6. 14	·1026	11. 30	·00900	9	58 ·0	61 ·0
1. 50	34. 40	7. 25	·1034	15. 10	·01143	21	48 ·0	52 ·0
2. 23	32. 0	8. 30	·1022	23. 5	·00985			
12. 58	25. 10	9. 3	·1033					
21. 5	23. 50	12. 32	·1041					
22. 30	25. 45	14. 51	·1031					
		20. 30	·1043					
		22. 50	·1026					
Feb. 21		Feb. 21		Feb. 21				
0. 0	22. 30. 10	0. 0	·1024	0. 0	·01340	1	50 ·0	55 ·0
1. 11	33. 0	2. 50	·1044	6. 26	·00863	3	55 ·0	58 ·0
1. 37	32. 20	9. 38	·1037	10. 30:	·00826	9	53 ·0	55 ·0
2. 48	34. 5	14. 0	·1030	20. 38:	·00958	21	52 ·0	56 ·0
3. 49	30. 40	18. 37	·1040	23. 30	·00937			
12. 30:	27. 0	23. 30	·1016					
13. 15:	23. 5							
15. 40	27. 10							
21. 0:	28. 0							
23. 55	31. 40							
Feb. 22		Feb. 22		Feb. 22				
0. 0	22. 32. 5	0. 0	·1023	0. 10	·00914	1	55 ·0	58 ·0
3. 13	30. 10	3. 10	·1020	1. 22	·00840	3	58 ·0	60 ·0
3. 25	31. 30	3. 40	·1062		***	9	58 ·0	62 ·0
4. 5	27. 40	4. 42	·1021	10. 0	·01440	21	50 ·0	54 ·5
4. 58	31. 0	5. 40	·1068		***			
5. 25	26. 0	6. 18	·1009	10. 32	·01515			
	***	6. 32	·1029		***			
5. 58	29. 10	7. 30	·1012	11. 0	·01481			
	***	8. 42	·1046		***			
6. 10	22. 40	9. 15	·1016	12. 28	·01562			
	***	9. 42	·1032		***			
8. 30	20. 0	10. 10	·1008	15. 11	·01393			
	***	10. 50	·1042		***			
8. 38	34. 30	11. 5	·1028	19. 35	·01462			
	***	11. 30	·1036		***			
9. 10	22. 0	11. 45	·1006	23. 30	·01420			
	***		***					
9. 53	26. 0	12. 10	·1027					
10. 13	20. 0		***					
10. 16	22. 20	13. 25	·0997					
10. 33	8. 30		***					
11. 0	20. 0	14. 32	·1030					
11. 11:	20. 40		***					
11. 21	19. 30	15. 10	·0996					
11. 42	23. 0		***					
	***	16. 20	·1025					
12. 55	18. 50		***					
	***	16. 40	·0992					
			***					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 22		Feb. 22						
h m	° ′ ″	h m		h m			°	°
13. 40	22. 24. 20 ***	18. 0	·1027 ***					
15. 5	26. 35	19. 25	·1017 ***					
15. 8	20. 25							
15. 15	24. 0 ***	19. 32	·1039 ***					
16. 0	25. 20 ***	21. 10	·1013 ***					
16. 42	18. 5 ***	21. 38	·1019 ***					
17. 20	26. 0 ***	22. 18	·1002 ***					
18. 0	35. 15 ***	22. 58	·1027 ***					
18. 25	29. 40 ***	23. 28	·1021					
22. 20	24. 45 ***							
23. 40	30. 0							
Feb. 23		Feb. 23		Feb. 23				
0. 10	22. 30. 0 ***	0. 0	·1013 ***	0. 0	·01422 ***	1	51 ·0	53 ·0
0. 15	38. 0 ***	0. 17	·1044 ***	2. 43	·01490 ***	3	55 ·0	58 ·0
0. 30	31. 40 ***	0. 32	·1003 ***	3. 47	·01325 ***	9	54 ·0	57 ·0
0. 40	41. 20 ***	0. 40	·1031 ***	4. 24	·01360	22	49 ·0	53 ·5
				9. 35	·00805			
0. 45	31. 20 ***	0. 48	·0998 ***	21. 30	·01410			
0. 55	52. 30 ***	1. 0	·1077 ***	23. 30	·01360			
1. 12	28. 10 ***	1. 40	·0963 ***					
1. 30	45. 45 ***	2. 40	·1051 ***					
1. 42	31. 40 ***	2. 58	·0990 ***					
1. 50	42. 0 ***	3. 5	·1028 ***					
2. 28	29. 40 ***	3. 12	·0996 ***					
3. 8	46 10 ***	3. 28	·1028 ***					
4. 6	30. 12 ***	3. 42	·0970 ***					
4. 25	43. 5 ***	4. 20	·1030 ***					
5. 0	32. 40 ***	5. 56	·0985 ***					
6. 5	33. 0 ***	7. 50	·0996 ***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 23		Feb. 23						
h m	° ′ ″	h m		h m			°	°
7. 12	22. 30. 50 ***	8. 6	·1083					
		8. 33	·1000					
7. 36	29. 40	8. 40	·1020					
7. 53	16. 55	8. 47	·1004					
8. 0	21. 10	9. 6	·1056					
8. 5	17. 30	9. 30	·1001					
8. 12	38. 35	10. 0	·1030					
8. 20	31. 0	10. 18	·1016					
8. 31	36. 0	10. 28	·1032					
8. 40	26. 0	10. 42	·1005					
8. 48	29. 0	11. 6	·1004					
9. 3	13. 0	11. 21	·1027					
9. 28	34. 0 ***	11. 45	·1008					
		12. 20	·1005					
9. 45:	23. 0	18. 0:	·1026					
9. 50	19. 0	23. 20	·1009					
10. 10	29. 5							
10. 22	23. 55							
10. 30	30. 0							
11. 12	18. 50							
11. 32	23. 55							
11. 50	20. 10							
12. 10	25. 0							
13. 45	27. 0							
23. 45	30. 25							
Feb. 24		Feb. 24		Feb. 24				
0. 0	22. 32. 0	0. 0	·1009	0. 0	·01352	10	48 ·0	53 ·5
2. 35	33. 35	7. 40	·1034	6. 45:	·01425	21	47 ·0	51 ·5
10. 20	28. 50	10. 40	·1030	14. 7	·01310			
12. 28	21. 0	11. 35	·1059	23. 3:	·01342			
12. 40	25. 0	12. 50	·1017					
12. 57	22. 30	13. 5	·1026					
13. 35	25. 15	13. 30	·1019					
14. 5	21. 50	13. 50	·1054					
20. 0	28. 12	14. 45	·1026					
20. 52	24. 15	23. 5	·1020					
23. 50	31. 20							
Feb. 25		Feb. 25		Feb. 25				
0. 0	22. 31. 45	0. 0	·1020	0. 0	·01334	1	50 ·0	53 ·0
0. 45	33. 50	5. 25:	·1036	3. 10	·01140	3	54 ·0	56 ·0
10. 30	27. 0	23. 10	·1010		(†)	9	54 ·0	57 ·0
11. 27	23. 30			10. 0	·00815	21	50 ·0	56 ·0
13. 15:	27. 0			23. 55	·01272			
21. 20	24. 15							
23. 50	30. 35							
Feb. 26		Feb. 26		Feb. 26				
0. 0	22. 30. 35	0. 0	·1013	0. 15	·01275	1	55 ·0	58 ·0
2. 2	34. 50	3. 40	·1033	5. 45	·00925	3	57 ·0	59 ·0
5. 30	27. 20	7. 15	·1025	15. 48	·01470	9	55 ·0	57 ·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Feb. 26		Feb. 26		Feb. 26				
h m	° ′ ″	h m		h m			°	°
6. 5	22. 23. 0	7. 50	·1039	23. 55	·01335	21	48 ·0	52 ·5
7. 53	26. 10	8. 50	·1023					
9. 55	22. 30	12. 33	·1032					
23. 58	31. 0	19. 10	·1036					
		23. 15	·1015					
Feb. 27		Feb. 27		Feb. 27				
0. 0	22 31. 55	0. 0	·1022	0. 5	·01338	1	48 ·0	50 ·0
1. 46	36. 10	2. 32	·1044	4. 48	·00905	3	57 ·0	59 ·0
6. 55	24. 5	11. 20	·1016	7. 0:	·00922	9	57 ·0	59 ·5
8. 45	26. 0	18. 30	·1029	9. 28:	·00858	21	47 ·0	49 ·0
11. 0	18. 30	23. 30	·1010	16. 38	·01446			
13. 45	23. 0			23. 45:	·01362			
14. 20	20. 40							
15. 25	25. 20							
23. 50	29. 30							
Feb. 28		Feb. 28		Feb. 28				
0. 0	22. 29. 25	0. 0	·1015	0. 0	·01372	1	49 ·0	51 ·0
1. 30	32. 5	7. 45	·1039	10. 0:	·00930	3	53 ·0	55 ·0
12. 5	23. 0	11. 36	·1023	21. 28	·01385	9	53 ·0	57 ·0
13. 55	26. 10	17. 10	·1032	23. 23	·01352	21	49 ·0	53 ·0
21. 25	23. 0	23. 15	·1000					
23. 50	31. 30							
Mar. 1		Mar. 1		Mar. 1				
0. 0	22. 33. 0	0. 0	·1010	0. 0	·01288	1	53 ·0	55 ·0
1. 57	36. 30	2. 20	·1034	4. 5	·00880	3	60 ·0	62 ·0
7. 0	28. 40	7. 30	·1007	6. 55:	·01012	9	57 ·0	59 ·0
7. 42	15. 30	7. 55	·1047	8. 20	·00920	21	55 ·0	58 ·0
8. 12	30. 0	8. 32	·0987	23. 30	·01432			
8. 47	20. 30	11. 20	·1006					
9. 36	20. 30	11. 40	·1028					
11. 25	24. 0	12. 10	·1012					
12. 12	17. 50	13. 55	·1000					
14. 7	23. 30	14. 25	·1012					
14. 45	15. 0	15. 20	·1002					
15. 35	22. 10	17 25	·1026					
16. 25	18. 20	22. 50	·0990					
16. 50	22. 0							
17. 35	15. 0							
19. 40	23. 5							
23. 50	28. 30							
Mar. 2		Mar. 2		Mar. 2				
0. 0	22. 28. 30	0. 0	·0988	0. 0	·01442	1	55 ·0	58 ·0
1. 30	31. 55	9. 3	·1022	6. 20:	·01300	3	58 ·0	60 ·0
12. 0	24. 0	18 55:	·1030	11. 25:	·01478	9	57 ·0	59 ·0
15. 30:	26. 25	23. 15	·1013	23. 30	·01298	22	50 ·0	53 ·0
21. 0	24. 0							
23. 55	31. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Mar. 3		Mar. 3		Mar. 3				
h m	° ′ ″	h m		h m			°	°
0. 20	22. 33. 25	0. 0	·1006	0. 15	·01260	12	52 ·0	55 ·0
12. 50	25. 15	13. 2	·1035	10. 30:	·00865	21	48 ·0	52 ·0
13. 0	28. 0	14. 5	·1019	22. 30	·01320			
13. 30	23. 10	15. 30	·1032					
14. 40	30. 20	16. 50	·1025					
15. 42	23. 50	18. 45	·1042					
23. 58	31. 10	21. 10	·1032					
		22. 22	·1003					
		23. 0	·1019					
		23. 45	·1014					
Mar. 4		Mar. 4		Mar. 4				
0. 55	22. 34. 30	1. 10	·1029	1. 10	·01080	1	50 ·0	53 ·0
5. 0	31. 30	4. 15	·1020	9. 26:	·00748	3	52 ·5	54 ·0
6. 5	24. 55	5. 2	·0996	16. 20	·01195	9	55 ·0	56 ·0
6. 45	28. 30	5. 32	·1013	21. 30	·01213	21	43 ·0	44 ·0
7. 25	16. 50	6. 5	·1015	23. 55	·01162			
8. 5	27. 10	7. 12	·0988					
10. 55	22 0	7. 48	·1015					
11. 28	26. 50	10. 45	·1003					
11. 45	13. 55	11. 18	·1030					
12. 28	21. 10	11. 37	·1008					
13. 33	17. 10	11. 58	·1030					
15. 20	28. 50	12. 32	·1004					
16. 8	22. 0	14. 15	·1005					
16. 40	27. 0	15. 35	·1030					
18. 0	22. 0	16. 8	·1012					
19. 30	26. 0	17. 30	·1033					
21. 0	23. 58	23. 0	·1014					
23. 55	30. 50	23. 55	·1027					
Mar. 5		Mar. 5		Mar. 5				
0. 5	22. 30. 40	0. 10	·1026	0. 10	·01043	1	47 ·0	47 ·0
1. 40	34. 10	2. 27	·1036	4. 30	·00687	3	53 ·0	55 ·0
16. 12	23. 30	12. 0	·1023	19. 30	·01288	9	52 ·0	54 ·0
23. 45	30. 30	13. 15	·1031	23. 0	·01222	21	45 ·5	48 ·0
		14. 30	·1020					
		19. 0:	·1028					
		23. 12	·1001					
Mar. 6		Mar. 6		Mar. 6				
0. 12	22. 34. 58	0. 30	·1013	0. 0	·01225	1	50 ·0	53 ·0
6. 5	22. 55	3. 50	·1022	3. 30:	·00845	3	58 ·0	60 ·0
11. 10	25. 20	6. 10	·1005	15. 25	·01438	9	59 ·0	61 ·0
12. 5	19. 0	11. 10	·1014	23. 30	·01326	21	49 ·5	52 ·5
13. 0	23 0	12. 12	·1019					
23. 55	30. 0	12. 38	·1008					
		19. 0	·1028					
		23. 13	·1002					
Mar. 7		Mar. 7		Mar. 7				
1. 40	22. 33. 44* (†)	1. 40	·1003* (†)	0. 30	·01310	1	50 ·0	55 ·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

On March 7 the time-piece of the Declination and Horizontal Force Cylinder was away for repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Mar. 7		Mar. 7		Mar. 7				
h m	° ′ ″	h m		h m			°	°
3. 40	22. 34. 22*	3. 40	·1020*	10. 50:	·00762	3	54 ·0	57 ·0
	(†)		(†)	23. 20	·01193	9	52 ·0	55 ·0
9. 40	26. 13*	9. 40	·1037*			21	49 ·5	53 ·0
	(†)		(†)					
21. 45	23. 31*	21. 45	·1022*					
	(†)		(†)					
Mar. 8		Mar. 8		Mar. 8				
0. 0	22. 29. 30	0. 0	·1015	0. 0	·01084	1	52 ·0	54 ·0
2. 38	34. 40	11. 0	·1035	10. 30:	·00718	3	55 ·0	58 ·0
14. 0:	27. 30	11. 15	·1044	22. 30	·01190	9	54 ·6	57 ·0
20. 55:	24. 50	20. 20	·1042			21	49 ·0	52 ·0
23. 58	30. 20	23. 50	·1017					
Mar. 9		Mar. 9		Mar. 9				
0. 3	22. 31. 20	0. 30	·1026	0. 30	·01062	1	52 ·0	54 ·0
1. 30	38. 0	5. 0	·1019	4. 12	·00786	3	58 ·0	60 ·0
9. 0	26. 35	7. 33	·1029	7. 0:	·00864	9	57 ·0	61 ·0
11. 45	18. 10	10. 35	·1014	9. 30:	·00810	21	48 ·0	51 ·0
13. 10	24. 0	18. 33	·1033	17. 40	·01368			
14. 15	20. 0	23. 30	·1013	23. 12	·01246			
15. 38	23. 55							
16. 42	21. 30							
23. 5	30. 50							
23. 40	29. 0							
Mar. 10		Mar. 10		Mar. 10				
0. 0	22. 33. 0	0. 0	·1023	0. 0	·01242	8	53 ·5	57 ·0
1. 54	37. 30	1. 5	·1026	6. 45	·00865	21	48 ·0	52 ·0
10. 30	25. 0	2. 8	·1011	11. 57:	·00772			
11. 3	27. 0	3. 0	·1021	21. 40	·01410			
11. 36	20. 40	4. 12	·1013	23. 30	·01410			
11. 55	23. 10	4. 40	·1023					
13. 0	19. 40	5. 8	·1013					
13. 58	24. 30	10. 18	·1026					
23. 35	32. 50	11. 5	·1046					
		12. 12	·1028					
		17. 35	·1037					
		23. 8	·1004					
Mar. 11		Mar. 11		Mar. 11				
0. 0	22. 29. 50	1. 0	·1014	0. 0	·01300	1	51 ·0	55 ·0
2. 0	37. 40	1. 49	·1036	5. 2	·00853	3	58 ·0	60 ·0
6. 10	26. 0	2. 32	·1007	6. 40	·00914	9	55 ·0	59 ·0
6. 15	20. 30	5. 0	·1021	9. 45	·00847	21	45 ·0	48 ·5
6. 50	25. 20	5. 38	·1000	15. 30	·01355			
7. 3	19. 30	6. 12	·1020	23. 30	·01193			
7. 45	24. 30	6. 24	·1005					
8. 15	16. 20	6. 45	·1034					
8. 42	19. 15	7. 0	·1011					
9. 0	15. 10	7. 42	·1022					
9. 50	17. 30	8. 3	·1001					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Mar. 11		Mar. 11						
h m	° ′ ″	h m		h m			°	°
10. 6	22. 17. 0	8. 50	·0997					
10. 20	14. 30	9. 10	·1018					
10. 35	18. 55	9. 48	·1000					
10. 55	14. 0	11. 3	·1029					
11. 10	19. 55	11. 27	·1004					
11. 30	16. 50	11. 58	·1024					
12. 0	23. 45	12. 10	·1003					
12. 55	13. 15	18. 11	·1033					
16. 30	29. 0	23. 50	·0996					
18. 25	20. 30							
18. 55	25. 10							
19. 0	19. 30							
23. 50	30. 30							
Mar. 12		Mar. 12		Mar. 12				
0. 0	22. 32. 0	0. 2	·1009	0. 30	·01138	1	50 ·0	53 ·0
0. 57	37. 30	3. 9	·1021	3. 45	·00786	3	56 ·0	59 ·0
4. 50	30. 15	4. 38	·1013	14. 58	·01408	9	58 ·5	62 ·0
5. 15	24. 0	5. 3	·0997	23. 0	·01235	21	46 ·0	49 ·0
10. 50	23. 45	5. 30	·1017					
11. 52	18. 5	7. 27	·1007					
12. 30	22. 0	15. 38	·1013					
15. 35	23. 0	15. 55	·1028					
16. 0	25. 40	16. 18	·1014					
16. 20.	22. 0	19. 40	·1026					
17. 0	24. 30	23. 0	·0992					
17. 30	22. 25							
23. 50	30. 50							
Mar. 13		Mar. 13		Mar. 13				
0. 5	22. 33. 0	1. 0	·1007	0. 0	·01245	1	50 ·0	53 ·0
2. 30	35. 50	2. 30	·1017	4. 8	·00828	3	57 ·0	60 ·0
3. 18	33. 30	3. 22	·1004	17. 0	·01395	9	57 ·0	60 ·0
3. 40	34. 50	6. 35	·1020	23. 30	·01318	21	49 ·2	54 ·0
4. 55	28. 0	7. 40	·1004					
6. 50	25. 15	11. 20	·1026					
7. 48	22. 20	12. 38	·1012					
8. 35	26. 0	12. 55	·1045					
11. 32	21. 50	14. 10	·1019					
12. 0	19. 30	19. 35	·1020					
12. 30	22. 10	23. 20	·1001					
13. 10	18. 35							
13. 40	21. 45							
14. 5	20. 40							
23. 55	30. 0							
Mar. 14		Mar. 14		Mar. 14				
0. 0	22. 28. 10	0. 0	·1006	0. 30	·01300	1	53 ·0	55 ·0
2. 30	33. 10	8. 38	·1027	9. 56:	·00840	3	54 ·0	56 ·0
5. 25	26. 0	17. 25:	·1026	18. 45	·01336	9	54 ·0	57 ·0
6. 15	27. 10	22. 35	·1007	22. 10:	·01297	21	49 ·0	52 ·0
11. 5	24. 10							

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Mar. 14	° ′ ″	h m		h m			°	°
19. 12	22. 24. 55							
21. 10	22. 0							
23. 8	26. 0							
Mar. 15		Mar. 15		Mar. 15				
0. 0	22. 29. 0	0. 10	·1009	0. 0	·01228	1	50 ·0	55 ·0
1. 56:	34. 0	12. 30	·1028	9. 0:	·00832	3	55 ·0	58 ·0
12. 55	23. 0	13. 15	·1035	14. 55	·01260	9	50 ·0	54 ·0
13. 2	24. 0	14. 30	·1027	18. 20	·01282	21	40 ·0	45 ·0
14. 0	19. 25	19. 30	·1046	23. 0	·01178			
16. 57	22. 0	22. 15	·1018					
19. 0	21. 0	23. 30	·1021					
23. 35	30. 0							
Mar. 16		Mar. 16		Mar. 16				
0. 0	22. 30. 20	0. 30	·1025	0. 0	·01045	1	44 ·0	48 ·0
2. 25	36. 10	9. 18	·1012	4. 20	·00642	3	50 ·0	53 ·0
	***	10. 38	·1019	16. 32	·01225	9	52 ·2	55 ·5
10. 20	21. 50	11. 55	·1022	23. 25	·01100	22	40 ·0	44 ·0
	***	13. 0	·1007					
10. 50	20. 0	19. 5	·1045					
	***	23. 15	·1020					
11. 42	21. 20							
	***							
13. 0	15. 10							
	***							
13. 50	19. 10							
	***							
14 30	16. 0							
23. 20	27. 15							
Mar. 17		Mar. 17		Mar. 17				
0. 0	22. 28. 50	0. 0	·1019	0. 0	·01092	9	44 ·0	47 ·5
2. 0	34. 0	5. 20	·1041	10. 0:	·00588	21	38 ·0	42 ·0
12. 20:	23. 25	7. 45	·1027	17. 17	·01100			
18. 25	26 50	18. 0	·1048	20. 0	·01125			
23. 30	30. 30	23. 25	·1019	23. 10	·01075			
Mar. 18		Mar. 18		Mar. 18				
0. 10	22. 32. 20	0. 10	·1022	0. 0	·00993	1	43 ·0	45 ·0
1. 0	33. 35	2. 12	·1036	3. 20	·00610	3	52 ·0	55 ·0
11. 50:	24. 0	17. 50:	·1030	16. 14	·01316	9	53 ·5	55 ·0
18. 25	25. 10	22. 45	·1009	22. 50	·01248	21	43 ·0	47 ·0
21. 0	23. 0	23. 40	·1013					
23. 58	30. 40							
Mar. 19		Mar. 19		Mar. 19				
0. 0	22. 31. 30	0. 30	·1017	0. 30	·01239	1	50 ·0	53 ·0
2. 43	33. 30	4. 30	·1037	5. 12	·00710	3	54 ·0	57 ·0
15. 30:	25. 0	5. 12	·1021	7. 7	·00775	9	53 ·0	55 ·0
18. 25	25. 50	5. 42	·1035	9. 10:	·00722	21	48 ·0	52 ·0
21. 5	22. 20	6. 0	·1028	21. 25	·01268			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Mar. 19	° ′ ″	h m		h m			°	°
23. 55	22. 30. 0	8. 45	·1037	23. 30	·01250			
		19. 0	·1033					
		23. 30	·1005					
Mar. 20		Mar. 20		Mar. 20				
0. 0	22. 29. 45	0. 45	·1014	0. 0	·01320	1	50 ·0	53 ·0
2. 11	32. 50	12. 5	·1027	9. 10	·00766	3	55 ·0	58 ·0
21. 0	22. 0	19. 15	·1028	21. 0:	·01290	9	55 ·0	57 ·0
23. 55	31. 25	23. 58	·1007	23. 45:	·01285	21	48 ·5	52 ·5
Mar. 21		Mar. 21		Mar. 21				
0. 0	22. 32. 20	0. 0	·1009	0. 30	·01342	1	52 ·0	55 ·0
1. 20	35. 22	8. 0	·1027	8. 45:	·00990	3	54 ·0	58 ·0
5. 20	24. 20	12. 5	·1021	15. 3	·01335	9	53 ·0	57 ·0
6. 55	27. 5	12. 18	·1038	23. 50	·01170	21	44 ·0	47 ·0
9. 42	20. 40	13. 30	·1024					
12. 3	23. 25	20. 25	·1046					
12. 20	28. 25	23. 30	·1020					
13. 57	23. 40							
20. 50	22. 30							
23. 48	30. 40							
Mar. 22		Mar. 22		Mar. 22				
0. 0	22. 30. 10	0. 0	·1032	0. 0	·01168	1	46 ·0	50 ·0
2. 0	36. 5	16. 5	·1015	5. 36	·00714	3	53 ·0	58 ·0
21. 20	21. 5	19. 15	·1027	23. 30	·01102	9	55 ·0	60 ·0
23. 55	28. 50	22. 0	·1007			21	49 ·0	54 ·0
Mar. 23		Mar. 23		Mar. 23				
0. 0	22. 29. 20	0. 0	·1008	0. 30	·01102	1	51 ·0	55 ·0
2. 23	34. 50	4. 20	·1029	8. 28	·01030	3	54 ·0	59 ·0
6. 50	27. 30	6. 12	·1019	14. 30	·01375	9	50 ·0	55 ·0
7. 18	27. 10	11. 53	·1027	23. 55	·01235	22	40 ·5	46 ·0
7. 40	25. 30	13. 0	·1043					
8. 12	26. 55	18. 48	·1025					
8. 30	25. 25	19. 55	·1038					
9. 29	27. 0	23. 11	·1015					
11. 30	25. 25							
12. 0	27. 0							
13. 50	21. 40							
15. 40	24. 50							
16. 20	20. 35							
23. 46	29. 10							
Mar. 24		Mar. 24		Mar. 24				
0. 0	22. 30. 10	0. 0	·1018	0. 0	·01136	9	42 ·5	45 ·0
5. 0	32. 5	2. 34	·1017	7. 0	·01202	21	37 ·0	41 ·0
6. 35	24. 12	3. 8	·1032	21. 57:	·01093			
8. 15	27. 5	4. 55	·1021	23. 30	·01128			
14. 58	26. 20	6. 55	·1045					
15. 0	29. 55	14. 58	·1038					
15. 30	24. 10	15. 0	·1057					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Mar. 24		Mar. 24						
h m	° ′ ″	h m		h m			°	°
16. 10	22. 25. 0	17. 35	·1033					
16. 52	16. 20	18. 33	·1057					
18. 40	23. 58	20. 22	·1039					
19. 40	27. 10	21. 12	·0992					
20. 25	24. 0	21. 45	·1016					
21. 56	37. 40	23. 30	·1004					
22. 0	35. 0							
23. 55	37. 10							
Mar. 25		Mar. 25		Mar. 25				
0. 15	22. 40. 45	0. 30	·1005	0. 0	·01105	1	43 ·0	46 ·0
6. 0	26. 50	1. 30	·0999	4. 58	·00585	3	50 ·0	55 ·0
7. 25	26. 5	3. 0	·1022	16. 52	·01182	9	48 ·0	53 ·0
7. 55	24. 0	5. 3	·1009	23. 25	·01075	21	38 ·5	42 ·0
8. 40	26. 30	7. 2	·1024					
9. 45	20. 50	7. 55	·1006					
10. 28	15. 50	8. 30	·1019					
11. 0	24. 50	9. 33	·1004					
15. 5	24. 0	9. 55	·1034					
15. 20	21. 55	10. 27	·1005					
15. 33	24. 45	10. 40	·1017					
20. 30	23. 10	11. 15	·1006					
23. 42	32. 50	13. 0	·1012					
		13. 30	·1028					
		14. 49	·1014					
		19. 3	·1036					
		23. 15	·1007					
Mar. 26		Mar. 26		Mar. 26				
0. 0	22. 32. 25	1. 0	·1016	0. 0	·01080	1	40 ·0	45 ·0
1. 8	36. 00	1. 37	·1002	5. 30	·00563	3	50 ·0	55 ·0
9. 12	22. 30	2. 11	·1027	7. 40:	·00602	9	49 ·0	51 ·0
9. 47	25. 50	9. 3	·1015	9. 50:	·00562	21	40 ·0	45 ·0
11. 30	24. 55	11. 30	·1023	21. 8	·01153			
11. 45	22. 10	11. 58	·1042	23. 30	·01142			
14. 11	24. 0	13. 0	·1018					
14. 54	26. 30	16. 0	·1010					
15. 58	21. 10	19. 18	·1033					
17. 25	24. 5	22. 6	·1008					
19 40	21. 0	23. 55	·1012					
23. 42	33. 40							
Mar. 27		Mar. 27		Mar. 27				
0. 15	22. 33. 30	0. 0	·1010	0. 0	·01112	1	45 ·0	50 ·0
1. 47	36. 0	4. 5	·1004	3. 45	·00747	3	54 ·0	59 ·0
4. 30	22. 30	5. 0	·1025	15. 45	·01275	9	54 ·5	56 ·5
4. 55	24. 48	10. 2	·1001	23. 30	·01134	21	40 ·0	45 ·0
8. 20	23. 0	19. 0	·1026					
9. 8:	21. 0	23. 35	·0995					
11. 10	21. 0							
13. 52:	23. 5							
16. 0:	20. 5							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Mar. 27								
h m	° ′ ″	h m		h m			°	°
18. 10:	22 22. 40							
20. 25	18. 40							
23. 55	31. 35							
Mar. 28		Mar. 28		Mar. 28				
0. 2	22. 31. 15	0. 42	·1008	0. 0	·01136	1	45 ·0	50 ·0
2. 14	32. 50	19. 28	·1037	5. 33	·00624	3	51 ·0	55 ·0
12. 0:	24. 20	23. 30	·1000	7. 25:	·00675	9	50 ·0	54 ·0
18. 10	26. 25			9. 10:	·00635	22	40 ·0	45 ·0
20. 30	20. 45			17. 15	·01215			
23 30	25. 40			23. 30	·01112			
Mar. 29		Mar. 29		Mar. 29				
0. 0	22. 29. 55	0. 0	·1003	0. 30	·01110	9	49 ·0	52 ·5
1. 15	35. 0	18. 0	·1036	6. 55	·00580	21	41 ·0	45 ·0
6. 30	24. 50	23. 7	·1006	8. 0	·00627			
12. 40:	24. 10			10. 30	·00552			
19. 15	23. 40			23. 0	·01200			
20. 40	19. 55							
23. 20	26. 15							
Mar. 30		Mar. 30		Mar. 30				
0. 0	22. 30. 20	0. 0	·1012	0. 0	·01135	1	49 ·0	53 ·0
1. 50	33. 25	16. 30:	·1024	4. 10	·00690	3	55 ·0	58 ·0
5. 48	26. 15	18. 45	·1037	23. 30	·01270	9	54 ·5	58 ·0
12. 0:	25. 25	23. 5	·0969			22	47 ·0	50 ·0
17. 10	25. 30	23. 30	·0976					
18. 0	25. 10							
21. 10	16. 30							
23. 30	34. 55							
Mar. 31		Mar. 31		Mar. 31				
0. 5	22. 35. 30	0. 3	·0980	0. 0	·01300	8	51 ·0	55 ·0
1. 45	33. 0	0. 42	·0976	6. 3	·01388	21	50 ·0	55 ·0
2. 53	34. 30	3. 5	·1015	12. 45	·00843			
3. 10	37. 30	3. 30	·1002	21. 51	·01230			
3. 34	33. 45	3. 54	·1022	23. 15	·01175			
3. 58	37. 0	4. 30	·1000					
4. 30:	31. 45	5. 20	·1024					
5. 0	34. 30	7. 14	·0992					
5. 55	29. 0	8. 35	·1028					
6. 25	25. 0	9. 18	·0974					
7. 5	27. 25	9. 33	·1004					
7. 55	25. 0	10. 0	·0990					
8. 14	16. 55	10. 38	·1003					
8. 42	21. 25	11. 37	·0994					
8. 54	15. 30	12. 7	·1069					
9. 6	22. 20	13. 32	·0992					
9. 28	3. 0	16 ·33	·1005					
10. 50	21. 55	17. 5	·1026					
11. 17	18. 5	17. 18	·1017					
11. 50	21. 35	18. 2	·1034					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Mar. 31		Mar. 31						
h m s	° ′ ″	h m		h m			°	°
12. 10	22. 5. 55	23. 30	·0982					
12. 25	19. 0							
12. 32	17. 5							
13. 2	23. 55							
13. 43	16. 5							
14. 25	20. 20							
15. 0	18. 50							
16. 22	22. 50							
16. 42	30. 40							
17. 40	24. 30							
18. 25	24. 50							
21. 25	16. 40							
23. 58	28. 0							
Apr. 1		Apr. 1		Apr. 1				
0. 30	22. 31. 0	0. 15	·0982	0. 30	·01048	1	55 ·0	59 ·0
1. 50	37. 0	0. 40	·0989	9. 52	·00792	3	58 ·0	60 ·0
3. 52	35. 0	2. 2	·0978	23. 30	·01343	9	59 ·0	63 ·0
4. 15:	26. 50	3. 20	·1013			21	55 ·5	59 ·0
5. 20	31. 35	3. 55	·1003					
6. 55	26. 40	4. 20	·1032					
7. 15	18. 40	6. 15	·0995					
7. 47	24. 55	8. 12	·1022					
8. 48	23. 30	8. 57	·0999					
9. 10	14. 30	9. 15	·1028					
9. 21	21. 0	10. 48	·1005					
9. 48	24. 5	15 39	·0998					
12. 12:	22. 25	20. 5	·1013					
14. 20	30. 10	23. 42	·1015					
15. 0	27. 0							
15. 25	31. 50							
16. 12	26. 45							
17. 25	31. 30							
21. 5	23. 55							
23. 47	31. 40							
Apr. 2		Apr. 2		Apr. 2				
0. 0	22. 31. 45	0. 43	·0983	0. 0	·01330	1	58 ·0	62 ·0
2. 0:	36. 5	4. 30	·1020	10. 40	·00726	3	60 ·0	65 ·0
6. 40	24. 48	6. 43	·1017	19. 45	·01430	9	62 ·0	66 ·0
7. 32	17. 15	6. 58	·1006	23. 0	·01385	21	55 ·0	59 ·0
9. 15	23. 45	7. 12	·1018					
9. 33	22. 5	8. 35	·1004					
10. 0	30. 0	9. 47	·1020					
10. 25	21. 0	10. 15	·1010					
10. 55	19. 0	10. 32	·1025					
13. 25:	25. 0	11. 50	·1007					
19. 55	21. 45	18. 32	·1018					
23. 55	31. 0	23. 40	·0991					
Apr. 3		Apr. 3		Apr. 3				
0. 30	22. 31. 40	0. 2	·0994	0. 30	·01208	1	60 ·0	64 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Apr. 3		Apr. 3		Apr. 3				
h m	° ′ ″	h m		h m			°	°
2. 0	22. 33. 50	5. 35	·1017	7. 10:	·00965	3	60 ·0	64 ·0
8. 0	23. 20	7. 25	·1007	19. 0:	·01186	9	58 ·0	60 ·0
	***	19. 42	·1017	23. 30	·01040	21	55 ·0	58 ·0
12. 30	25. 50	23. 50	·0997					
14. 0:	25. 40							
21. 10	21. 15							
23. 55	29. 55							
Apr. 4		Apr. 4		Apr. 4				
0. 0	22. 30. 40	0. 0	·0998	0. 0	·01010	1	59 ·0	62 ·0
1. 59	33. 5	19. 15	·1022	9. 30:	·00708	3	60 ·0	64 ·0
14. 10:	25. 45	19. 35	·1021	19. 38	·01210	10	58 ·0	62 ·0
19. 40	21. 40		(†)		(†)	21	55 ·0	56 ·0
	(†)	21. 58	·1008	22. 0	·01230			
22. 0	23. 30	23. 20	·0996	23. 30	·01312			
23. 50	30. 0							
Apr. 5		Apr. 5		Apr. 5				
0. 0	22. 30. 50	0. 30	·1003	0. 0	·01310	1	57 ·0	60 ·0
1. 47	31. 55	6. 36	·1021	3. 20:	·00790	3	60 ·0	63 ·0
13. 40	22. 45	7. 30	·1015	16. 30	·01405	9	62 ·0	66 ·0
21. 0	20. 0	13. 0	·1021	22. 15:	·01270	21	53 ·0	57 ·0
23. 48	29. 0	17. 40	·1016	23. 30	·01320			
		19. 25	·1025					
		22. 50	·1004					
		23. 52	·1008					
Apr. 6		Apr. 6		Apr. 6				
0. 0	22. 29. 20	0. 30	·1009	0. 30	·01330	1	55 ·0	59 ·0
1. 57	33. 0	7. 0	·1017	6. 25	·00785	3	60 ·0	63 ·0
8. 5	26. 0	8. 50	·1043	7. 57:	·00835	9	60 ·5	64 ·5
8. 30	27. 45	10. 50	·1002	9. 40:	·00735	22	55 ·0	58 ·0
10. 0:	21. 25	11. 32	·1083	11. 23	·00772			
10. 38	24. 5	12. 12	·0963	12. 0	·00650			
11. 25	18. 55	13. 32	·1009	13. 12	·00813			
11. 40:	23. 45	14. 4	·0963	14. 23	·00748			
12. 30	9. 45	14. 48	·1005	23. 30	·01355			
13. 12	19. 55	15. 18	·0986					
13. 38	8. 25	17. 13	·1015					
14. 10	26. 50	21. 55	·0977					
14. 21	19 55	22. 14	·0985					
14. 33	21. 0	23. 22	·0968					
14. 40	18. 5	23 53	·0990					
15. 28	18. 15							
16. 16	23. 50							
17. 5	18. 12							
	***							
23. 55	34. 10							
Apr. 7		Apr. 7		Apr. 7				
0. 0	22. 35. 0	0. 10	·0979	1. 0	·01402	10	60 ·0	65 ·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Apr. 7	° ′ ″	Apr. 7		Apr. 7			°	°
h m		h m		h m				
0. 30	22. 33. 40	0. 43	·0996	6. 50	·00905	21	57 ·0	61 ·0
0. 47	36. 30	1. 7	·0979	7. 53	·00966			
7. 30	25. 0	1. 15	·0991	12. 0:	·00790			
7. 55	23. 0	1. 35	·0978	22. 52:	·01352			
8. 40:	25. 50	1. 58	·0992					
9. 50	23. 0	2. 30	·0980					
10. 5	20. 50	2. 58	·1000					
10. 32	27. 0	6. 18	·1004					
11. 14	19. 55	9. 58	·0996					
11. 55	23. 15	10. 18	·1010					
13. 0	20. 0	10. 35	·1024					
13. 50	23. 58	10. 55	·1013					
14. 32	17. 45	12. 12	·0991					
15. 24	25. 55	14. 15	·1014					
16. 28	21. 0	15. 0	·0987					
17. 40	24. 50	17. 52	·1004					
20. 30	19 15	20 30	·0996					
23. 55	30. 0	21. 48	·0966					
		23. 30	·0988					
Apr. 8		Apr. 8		Apr. 8				
0. 30	22. 30 25	0. 30	·0982	0. 30	·01415	1	60 ·0	65 ·0
1. 5	34. 50	1. 2	·0989	9. 36:	·01100	3	62 ·0	66 ·0
4. 8	30. 0	1 45	·0977	15. 8	·01375	9	62 ·0	67 ·0
5. 30	17. 20	3. 30	·1010	17. 38:	·01290	21	54 ·5	58 ·0
8. 45	27. 25	4. 40	·0997	23. 30:	·01288			
12. 40	25. 55	5. 12	·1027					
13. 0	30. 25	5. 18	·1015					
15. 50	21. 20	5. 50	·1037					
16. 50	28. 55	6. 50	·0999					
21. 5	22. 0	12. 0	·1009					
23. 58	29. 5	12. 52	·1029					
		13 40	·1010					
		14. 37	·1020					
		16. 42	·0996					
		17. 50	·1015					
		21. 30	·0982					
		23. 55	·0987					
Apr. 9		Apr. 9		Apr. 9				
0. 15	22. 30. 5	0. 30	·0984	0. 30	·01289	1	55 ·0	60 ·0
2. 50	34. 15	3. 25	·1008	10. 10:	·00870	3	57 ·0	61 ·0
11. 2	25. 0	4. 20	·0996	19. 30:	·01334	9	58 ·0	63 ·0
12. 5	26. 35	10. 0	·1020	22. 20	·01275	21	51 ·0	53 ·0
20. 0	22. 0	10. 34	·1009					
23. 45	31. 55	17. 45	·1018					
		23. 45	·0970					
Apr. 10		Apr. 10		Apr. 10				
0. 0	22. 33. 0	0. 50	·0979	0. 30	·01202	1	55 ·0	59 0
1. 25	35. 0	1. 45	·0988	5. 40	·00693	3	60 ·0	63 ·0
7. 0	18. 50	2. 8	·0980	8. 5:	·00820	9	60 ·0	64 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Apr. 10	° ′ ″	Apr. 10		Apr. 10				
h m		h m		h m				
13. 30:	22. 24. 20	5. 15	·1016	10. 0:	·00722	21	53 ·0	58 ·0
21. 20	21. 5	5. 56	·1014	18. 20	·01350			
22. 2	22. 0	6. 10	·1004	21. 43	·01288			
	(†)	6. 30	·1015					
		7. 5	·1018					
		18. 30:	·1015					
		22. 3	·0987					
Apr. 11	(†)	Apr. 11		Apr. 11				
1. 40	22. 33. 35*	1. 40	·1003*	0. 0	(†)	1	54 ·5	56 ·5
	(†)	4. 0	·1017	4. 10	·01128	3	57 ·0	57 ·7
4. 0	32. 25	7 15	·1003	12. 45:	·00630	9	58 ·5	64 ·0
9. 25	24. 30	7. 34	·1015	22. 40	·01224	21	55 ·0	59 ·0
9. 56	18. 50	8. 30	·0998					
12. 0	24. 5	10. 0	·1018					
16. 30	21. 0	10. 55	·1000					
23. 58	28. 35	19. 12	·1017					
		23. 58	·0972					
Apr. 12		Apr. 12		Apr. 12				
0. 5	22. 28. 30	0. 15	·0971	0. 30	·01099	1	58 ·0	61 ·0
1. 45	35. 0	5. 0	·1017	10. 5:	·00748	3	58 ·0	61 ·0
9. 50	21. 55	7. 0	·1004	19. 10	·01370	9	58 ·0	61 ·0
14. 10	27. 20	9. 23	·1015	21. 30	·01318	21	55 ·0	59 ·0
21. 0	20. 35	10. 40	·1004	23. 0	·01360			
23. 54	29. 20	19. 0	·1016					
		23 30	·1020					
Apr. 13		Apr. 13		Apr. 13				
0. 0	22. 30. 0	0. 30	·0983	0. 0	·01190	1	55 ·0	60 ·0
1. 50	36. 45	18. 30:	·1020	9. 51:	·00852	3	59 ·0	62 ·0
13. 0:	26. 55	23. 2	·0984	18. 50	·01290	9	58 ·0	63 ·0
20. 55	19. 20			23. 10	·01200	22	52 ·0	57 ·0
23. 28	28. 20							
Apr. 14		Apr. 14		Apr. 14				
0. 0	22. 31. 40	0. 10	·0991	0. 0	·01190	10	55 ·0	60 ·0
2. 12	38. 55	1. 30	·0981	10. 30:	·00808	21	50 ·0	55 ·0
8. 58	25. 0	13. 20:	·1013	19. 40	·01270			
13. 58	29. 55	14. 25	·1025	23. 0	·01160			
14. 55	25. 20	16. 0	·1013					
21. 25	22. 10	20. 10	·1015					
23. 5	27. 0	23. 30	·0978					
Apr. 15		Apr. 15		Apr. 15				
0. 0	22. 31. 40	0. 0	·0978	0. 0	·01112	1	55 ·0	60 ·0
2. 0	38. 30	3. 42	·1014	10. 15	·00635	3	58 ·0	63 ·0
8. 12	27. 20	4. 0	·1029	19. 34	·01308	9	60 ·0	63 ·0
8. 45	23. 10	7. 30	·1028	23. 30	·01115	21	53 ·5	58 ·0
9. 30	28. 0	9. 10	·1013					
11. 0	20. 20	9. 34	·1029					
12. 8	25. 0	9. 48	·1014					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

April 10 and 11. During parts of these days workmen were employed in laying down gas pipes for the Astronomical Observatory.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Apr. 15	° ′ ″	Apr. 15		h m			°	°
h m		h m						
15. 30	22. 27. 0	10. 0	·1025					
20. 20	22. 10	10. 22	·1011					
23. 35	30. 0	15. 26	·1028					
		23. 15	·0983					
Apr. 16		Apr. 16		Apr. 16				
0. 0	22. 32. 0	0. 30	·0983	0. 0	·01098	1	55 ·0	59 ·0
2. 0	37. 55	11. 53	·1031	9. 43:	·00895	3	55 ·0	60 ·0
11. 42	25. 20	18. 0:	·1030	19. 25:	·01120	9	54 ·0	58 ·0
20. 30	20. 45	23. 44	·1085	23. 30	·00988	21	53 ·0	57 ·0
23. 45	28. 0							
Apr. 17		Apr. 17		Apr. 17				
0. 0	22. 29. 10	0. 30	·0984	0. 0	·00926	1	57 ·0	61 ·0
1. 43	34. 10	18. 37	·1016	2. 12	·00640	3	60 ·0	64 ·0
6. 0	25. 55	18. 43	·1028	6. 35	·00698	9	60 ·0	65 ·0
15. 6	27. 40	22. 55	·0982	8. 5	·00765	21	52 ·0	55 ·0
21. 0	21. 30	23. 45	·0983	9. 45:	·00723			
23. 45	30. 50			17. 12	·01328			
				23. 30	·01260			
Apr. 18		Apr. 18		Apr. 18				
0. 0	22. 31. 58	0. 30	·0982	0. 0	·01238	1	58 ·0	61 ·0
2. 0	33. 35	12. 50	·1025	3. 30	·00736	3	60 ·0	65 ·0
6. 0	24. 55	15. 52	·1017	15. 48	·01350	9	60 ·0	65 ·0
12. 20:	25. 10	18. 35	·1029	23. 40	·01245	21	60 ·0	64 ·0
14. 30:	23. 0	23. 28	·0988					
16. 30	23. 40							
16. 40:	22. 0							
17. 5	25. 0							
20. 0	20. 40							
20. 10:	22. 30							
20. 20	18. 50							
23. 55	30. 0							
Apr. 19		Apr. 19		Apr. 19				
0. 0	22. 31. 10	0. 45	·0991	0. 0	·01240	1	55 ·0	59 ·0
1. 45	35. 40	11. 10	·1033	9. 44:	·00970	3	60 ·0	63 ·0
6. 20	29. 0	12. 25	·1013	21. 50	·01218	9	58 ·0	62 ·5
10. 40	26. 0	13. 22	·1029	23. 40	·01149	21	54 ·0	59 ·0
11. 35:	29. 50	15. 0	·1019					
12. 15	25. 30	19. 38	·1028					
12. 45	27. 0	22. 45	·0988					
13. 58	23. 0	23. 58	·0996					
17. 28	27. 40							
19. 58	20. 55							
23. 55	34. 30							
Apr. 20		Apr. 20		Apr. 20				
0. 5	22. 35. 20	0. 10	·0996	0. 10	·01124	1	60 ·0	65 ·0
0. 55	37. 55	3. 54	·1022	10. 0	·00750	3	60 ·0	65 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Apr. 20	° ′ ″	Apr. 20		Apr. 20				
h m		h m						
3. 0	22 36. 55	5. 0	·1012	16. 18	·01272	9	57 ·0	61 ·0
6. 20	25. 10	5. 40	·1027	23. 45	·01148	22	53 ·5	57 ·0
8. 35	25. 0	7. 10	·1030					
9. 25	18. 0	8. 0	·1019					
9. 45	19. 55	8. 28	·1030					
10. 15	18. 15	8. 57	·1023					
10. 45:	23. 50	9. 35	·1039					
11. 20:	21. 30	10. 40	·1022					
11. 45	22. 40	12. 2	·1032					
12. 30	15. 25	13. 12	·1002					
13. 30	32. 25	13. 45	·1039					
14. 23:	15. 50	15. 12	·1021					
16. 30	23. 55	17. 40	·1033					
19. 9	22. 40	22. 12	·1003					
19. 45	19. 5	23. 3	·1015					
20. 45	23. 0	23. 42	·1005					
21. 8:	20. 5							
23. 45	32. 30							
Apr. 21		Apr. 21		Apr. 21				
0. 0	22. 33. 30	0. 23	·0993	0. 0	·01130	10	59 ·0	64 ·0
0. 35	36. 5	3. 0	·1014	6. 0	·00648	21	52 ·0	58 ·5
6. 23	27. 0	3. 40	·1008	8. 20:	·00753			
6. 55	15. 40	4. 20	·1034	10. 31:	·00670			
7. 5	15. 10	4. 48	·1014	21. 30	·01280			
8. 40	22. 0	6. 0	·1032	23. 30	·01248			
15. 0	27. 20	6. 40	·1026					
19. 40	21. 30	7. 18	·1046					
23. 58	30. 30	8. 8	·1023					
		8. 48	·1014					
		10. 0	·1005					
		16. 37	·1024					
		19. 14	·1009					
		22. 8	·1003					
		23. 48	·1004					
Apr. 22		Apr. 22		Apr. 22				
0. 30	22. 31. 15	0. 5	·1003	0. 30	·01163	1	58 ·0	63 ·0
7. 30	24. 0	1. 33	·1011	10. 0	·00690	3	59 ·0	63 ·0
10. 5	27. 20	2. 35	·0994	16. 45	·01295	9	57 ·0	60 ·0
11. 45	23. 30	6. 12	·1010	23. 40	·01202	21	52 ·0	56 ·0
15. 30	25. 20	9. 47	·1002					
20. 10	21. 5	19. 5:	·1019					
23. 40	30. 0	22. 35	·0990					
		23. 40	·0995					
Apr. 23		Apr. 23		Apr. 23				
0. 0	22. 31. 50	0. 0	·0995	0. 0	·01182	1	53 ·0	58 ·0
1. 57	35. 25	1. 10	·0989	4. 40	·00612	3	58 ·0	61 ·0
6. 0	24. 10	5. 20	·1008	8. 0:	·00700	9	59 ·0	61 ·0
13. 30:	26. 0	8. 55	·0990	10. 20	·00632	21	50 ·0	53 ·0
21. 0	20. 55	18. 15	·1015	17. 50	·01280			

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Apr. 23	° ′ ″	Apr. 23		Apr. 23			°	°
h m 23. 55	22. 28. 30	h m 18. 33	·1026	h m 23. 40	·01190			
		23. 30	·0988					
Apr. 24		Apr. 24		Apr. 24				
0. 0	22. 28 55	0. 30	·0990	0. 0	·01168	1	57 ·0	60 ·0
1. 40	32. 0	10. 2	·1016	3. 48:	·00665	3	60 ·0	63 ·0
6. 25	24. 0	10. 38	·1011	6. 52:	·00655	9	60 ·0	63 ·0
11. 0	24. 20	11. 10	·1027	8. 10:	·00720	21	51 ·0	53 ·0
11. 45:	18. 55	12. 35	·1004	9. 50:	·00665			
12. 28	21. 30	13. 26	·1039	16. 20	·01280			
12. 40:	28. 0	14. 18	·1004	23. 40	·01190			
13. 0	22. 30	18. 50	·1026					
14. 20	14. 25	23 45	·0996					
15. 30	21. 40							
16. 35	23. 0							
19 42	20. 0							
23. 55	27. 0							
Apr. 25		Apr. 25		Apr. 25				
0. 0	22. 27. 12	0. 0	·0996	0. 0	·01178	1	56 ·0	59 ·0
1. 40	32. 0	5. 35	·1007	6. 28	·00596	3	59 ·0	62 ·0
6. 0	23. 30	6. 10	·1019	8. 25:	·00700	9	59 ·0	63 ·0
10. 55	23. 0	10. 30	·1008	10. 30:	·00600	21	51 ·0	56 ·0
11. 28	26. 0	19. 0	·1015	19. 20	·01295			
12. 0	24. 10	23. 4	·0994	23. 40	·01222			
15. 0:	25. 5	23. 15	·1001					
21. 0	20. 45	23. 38	·0998					
23. 55	27. 58							
Apr. 26		Apr. 26		Apr. 26				
0. 30	22. 29. 40	0. 10	·0996	0. 30	·01202	1	56 ·0	60 ·0
1. 50	32. 0	10. 37	·1017	3. 48	·00705	3	55 ·0	61 ·0
8. 40:	21. 55	19. 0:	·1019	9. 27:	·00632	9	57 ·0	60 ·0
20. 25	19. 55	23. 10	·1002	16. 6	·01270	21	51 ·0	56 ·5
23. 30	28. 25	23. 47	·1009	23 55	·01135			
Apr. 27		Apr. 27		Apr. 27				
0. 30	22. 28. 30	0. 30	·1006	0. 30	·01170	1	55 ·0	59 ·0
1. 40	30. 30	3. 57	·1025	5. 18	·00647	3	60 ·0	64 ·0
6. 30	24. 0	4. 30	·1010	8. 15:	·00710	9	60 ·0	66 ·5
13. 50	21. 50	6. 0	·1026	10. 0:	·00640	22	50 ·0	55 ·0
14. 39	23. 50	9. 23	·1018	15. 52	·01282			
18. 30	22. 0	12. 45	·1032	23 30	·01165			
19 12	19. 25	17. 30	·1017					
23. 25	30. 0	18. 42	·1029					
		20. 45	·1021					
		23. 25	·1004					
Apr. 28	(†)	Apr. 28		Apr. 28				
10. 30	22. 18. 0	0. 10	·0996	0. 0	·01155	10	55 ·0	59 ·0
13. 3	20. 0	2. 7	·1016	10. 40	·00542	21	48 ·0	52 ·0
14. 10	30. 20	3. 33	·1029	17. 40	·01214			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Apr. 28	° ′ ″	Apr. 28		Apr. 28			°	°
h m 15. 27	22. 18. 0	h m 4. 0	·1022	h m 23. 25	·01156			
16. 0	17. 0	4. 32	·1036					
16. 30	21. 40	5. 58	·1027					
18. 18	24. 20	6. 25	·1043					
20. 15	21. 10	7. 8	·1022					
23. 58	31. 25	9. 54	·1026					
		10. 8	·1042					
		11. 18	·1017					
		14. 17	·1014					
		15. 7	·1049					
		17. 0	·1013					
		22. 37	·1003					
		23. 30	·1013					
Apr. 29		Apr. 29		Apr. 29				
0. 30	22. 32. 45	0. 30	·1014	0. 30	·01015	1	55 ·0	59 ·0
9. 21	21. 50	2. 24	·1002	3. 30	·00597	3	60 ·0	63 ·0
12. 25	24. 40	6. 0	·1015	8. 0:	·00690	9	58 ·0	61 ·0
12. 45	27. 50	9. 20	·1000	10. 10:	·00610	21	50 ·0	55 ·0
14. 30:	25. 20	19. 2	·1014	18. 12	·01290			
20. 0	20. 50	22. 18	·0993	23. 55	·01215			
23. 50	30. 30							
Apr. 30		Apr. 30		Apr. 30				
0 0	22. 30. 20	0. 0	·0989	0. 30	·01187	1	55 ·0	59 ·0
1. 50	33. 0	6. 18	·1007	4. 16	·00640	3	60 ·0	64 ·0
8. 0	21. 0	8. 0	·0995	7. 22	·00742	9	62 ·0	67 ·0
10 45	23. 55	12. 38	·0990	10. 10	·00628	21	51 ·0	54 ·0
12. 12	22. 10	19. 0	·1008	18. 7	·00295			
14. 30	23. 50	23. 20	·0982	22. 30:	·01190			
20. 40	18 20							
23. 58	26. 25							
May 1		May 1		May 1				
0. 10	22. 27. 20	0. 45	·0983	0. 30	·01268	1	55 ·0	59 ·0
2. 30:	30. 0	6. 58	·1020	10. 15:	·00848	3	57 ·0	61 ·0
20. 10	20. 30	7. 57	·1001	15. 5	·01236	9	58 ·0	63 ·0
23. 58	29. 40	8. 48	·1014	17. 32	·01210	21	50 ·0	55 ·0
		18. 38	·1029	18. 10	·01265			
		23. 35	·0997	23. 20	·01185			
May 2		May 2		May 2				
0. 0	22. 30. 5	0. 0	·1000	0. 30	·01072	1	54 ·0	58 ·0
1. 50	32. 25	18. 57	·1032	4. 12	·00584	3	58 ·5	62 ·0
17. 25	22. 45	22. 20	·1027	8. 15:	·00710	9	62 ·0	66 ·5
18. 15	21. 0	23. 35	·1002	10. 25:	·00620	21	49 ·0	53 ·0
20. 0:	23. 0	23 58	·1007	16. 5	·01244			
20. 58	21. 0			23. 12	·01110			
23. 58	28. 50							
May 3		May 3		May 3				
0. 30	22. 30. 55	0. 30	·1011	0. 30	·00960	1	55 ·0	59 ·0

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 3	° ′ ″	May 3		May 3			°	°
h m		h m		h m				
1. 50	22. 34. 15	2. 34	·0994	3. 12	·00545	3	60·0	63·0
7. 40	24. 45	3. 12	·1020	8. 8	·00746	9	61·5	64·5
7. 57	16. 45	3. 42	·1003	10. 25	·00548	21	55·0	59·0
9. 0	22 30	4. 35	·1028	19. 42	·01248			
9. 55	17. 50	5. 58	·1002	23. 55	·01237			
10. 5	7. 55	7. 3	·1022					
10. 24	10. 55	7. 55	·0995					
10. 33	3. 40	8. 20	·1023					
10. 56	13. 0	8. 55	·1023					
11. 15	22. 0	9. 51	·0991					
11. 48	15. 25	10 14	·1028					
13. 30	22. 50	10. 32	·0988					
19. 0	17. 55	10. 45	·1010					
23. 58	34. 5	10. 58	·0997					
		11. 8	·1008					
		11. 28	·1078					
		13. 30	·1000					
		17. 53	·0985					
		18. 18	·0997					
		20. 12	·1079					
		21. 50	·0985					
		23. 50	·0963					
May 4		May 4		May 4				
0. 10	22. 32. 58	0. 15	·0962	0. 20	·01210	1	58·0	60·0
7. 30	22. 25	2. 38	·0995	5. 30:	·00728	3	60·0	63·0
8. 6	12. 25	2 58	·0984	8. 12	·00821	9	62·0	66·0
8. 20	19. 15	6. 57	·1013	10. 0:	·00766	22	55·0	57·5
13. 10	26. 5	8. 2	·1000	16. 37	·01370			
20. 0	20. 50	8. 18	·1040	21. 35:	·01255			
23. 29	30. 0	9. 25	·1000	23. 30	·01290			
		13. 20	·1014					
		15. 15	·1000					
		20. 30	·1007					
		23. 0	·0993					
May 5		May 5		May 5				
0. 0	22. 29. 20	0. 30	·1000	0. 0	·01208	9	59·0	64·0
2. 15	28. 40	13. 32	·1020	10. 10:	·00580	21	53·5	57·5
4. 30	24. 0	20. 5	·1012	19. 45	·01262			
7. 30:	23. 10	22. 25	·0993	22. 40:	·01170			
13. 0:	24. 20			23. 55	·01180			
20. 0	19. 25							
23. 58	29. 40							
May 6		May 6		May 6				
1. 15	22. 29. 30	1. 18	·1015	1. 20:	·01196	1	54·0	58·0
3. 30	27. 0	11. 15	·1028	6. 38:	·01168	3	55·0	58·5
5. 15	23. 30	14. 38:	·1027	11. 25	·01234	9	52·0	59·5
12. 30:	26. 0	23. 25	·1003	23. 45	·01138	21	50·0	56·0
20. 35	20. 55							
23. 50	29. 5							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 7	° ′ ″	May 7		May 7				
h m		h m		h m				
0. 0	22. 30. 0	0. 0	·1009	0. 0	·01130	1	53·5	57·0
2. 18	35. 45	2. 45	·1006	12. 57	·00650	3	57·0	58·5
11. 45	25. 15	5. 35:	·1031	23. 30	·01012	9	58·0	61·0
12. 15	12. 20	6. 30	·1020			21	54·0	58·0
12. 50	16. 5	7. 20	·1030					
13. 3	12. 55	8. 30	·1021					
13. 15	16. 5	11. 5	·1034					
14. 25	16. 30	11. 35	·1024					
14. 58	18. 10	12. 20	·1079					
15. 37	26. 45	12. 58	·1021					
15. 58	16. 25	13. 37	·1031					
18. 58	20. 30	14. 48	·1007					
19. 15	13. 25	16. 20	·1030					
23. 55	33. 30	20. 2	·0978					
		21. 59	·1005					
		23. 0	·0953					
		23. 55	·0983					
May 8		May 8		May 8				
0. 0	22. 34. 0	0. 0	·0993	0. 0	·01012	1	56·0	59·0
3. 30	34. 0	2. 3	·1016	9. 51:	·00984	3	57·0	59·0
5. 12	28. 30	3. 30	·1001	20. 0	·01182	9	56·0	60·0
6. 25	28. 0	3. 58	·1016	23. 40	·01046	21	52·5	56·0
6. 58	19 45	5. 0	·1004					
10. 42	25. 10	6. 30	·1023					
11. 30	22. 25	7. 0	·1037					
12. 40	30. 40	7. 30	·1021					
14. 20	21. 50	7. 45	·1029					
15. 32	23. 0	9. 41	·1006					
20. 40	20. 0	14. 0	·1024					
23. 30	31. 55	21. 57	·0990					
		23. 30	·1004					
May 9		May 9		May 9				
0. 0	22. 32. 40	0. 0	·0998	0. 0	·01022	1	57·5	61·0
2. 55	32. 0	3. 0	·1012	4. 0	·00600	3	58·5	63·0
9. 40	23. 30	3. 50	·0998	8. 30:	·00750	9	63·5	67·0
13. 48	24. 20	7. 15	·1012	10. 30:	·00660	21	52·0	55·0
14. 0	27. 0	10. 18	·1002	17. 27	·01288			
15. 45:	20. 50	14. 30	·1013	23. 40	·01204			
17. 0	24. 50	16. 25	·1004					
20. 28	21. 0	19. 2	·1026					
23. 42	31. 0	23. 25	·1000					
May 10		May 10		May 10				
0. 0	22. 32. 0	1. 0	·1013	0. 0	·01180	1	56·0	59·0
1. 15	33. 0	1. 54	·1000	5. 0:	·00643	3	60·0	63·0
6. 5	20. 50	4. 30	·1020	6. 45:	·00652	9	60·0	65·0
12. 3	24. 0	5. 18	·1013	8. 18:	·00732	21	57·0	60·0
19. 25	17. 30	6. 0	·1021	10. 27:	·00650			
23. 58	29. 0	19. 48	·1000	20. 40:	·01332			
		22. 22	·0982	23. 40	·01285			

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	May 10 h m		h m			°	°
		23. 58	·0994					
May 11		May 11		May 11				
0. 0	22. 29. 50	0. 10	·0990	0. 0	·01268	1	60 ·0	65 ·0
1. 51	32. 15	15. 37:	·1023	5. 50:	·00700	3	62 ·0	66 ·0
13. 0	23. 0	19. 55	·1015	6. 40:	·00695	9	64 ·6	68 ·0
13. 28	26. 0	23. 20	·0989	8. 20:	·00780	22	55 ·0	59 ·0
14. 10	22. 45			10. 0:	·00648			
20. 5	18. 15			19. 33	·01328			
23. 20	27. 20			23. 25	·01250			
May 12		May 12		May 12				
0. 0	22. 31. 50	1. 0	·0997	0. 0	·01256	11	60 ·0	64 ·0
2. 35	36. 30	2. 0	·1008		***	21	54 ·0	58 ·0
3. 55	36. 0	2. 45	·1055	4. 58	·01310			
4. 27	27. 15	3 28	·1034		***			
6. 0	32. 35	3. 50	·1065	11. 10	00610			
10. 0	24. 30	3. 59	·1040	17. 55	·01310			
10. 30	11. 25	4. 48	·1056	23. 0	·01206			
10. 57	26. 40	4. 55	·1087					
11. 13	21. 10	6. 48	·1002					
13. 8	21. 20	7. 35	·1019					
13. 45	26. 0	7. 50	·0985					
21. 40	23. 15	8. 5	·1023					
23. 50	33. 0	8. 30	·1008					
		8. 40	·1021					
		10. 10	·1004					
		10. 30	·1028					
		11. 0	·1006					
		12. 35	·1020					
		14. 50	·1016					
		16. 0	·1016					
		17. 5	·1026					
		17. 8	·1012					
		17. 20	·1026					
		19. 0	·1022					
		22. 30	·0982					
		23. 38	·1006					
May 13		May 13		May 13				
0. 50	22. 33. 35	0. 50	·1005	1. 0	·01125	1	58 ·0	61 ·0
7. 30	21. 30	1. 52:	·1018	10. 0:	·00580	3	60 ·0	64 ·0
8. 28	13. 0	2. 15	·1012	10. 56	·00635	9	63 ·5	66 ·0
10. 10	22. 10	2. 40	·1036	11. 10	·00554	21	52 ·0	56 ·0
10. 40	19. 0	3. 50	·0982	16. 2	·01202			
11. 0	24. 50	4. 18	·1018	23. 55	·01055			
11. 28	19. 20	4. 32	·1000					
11. 45	22. 20	5. 5	·1027					
12. 15	15. 0	6. 10	·1004					
12. 36	16. 5	6. 40	·1026					
13. 10	11. 0	7. 7	·1008					
15. 32	27. 0	7. 30	·1029					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 13 h m	° ′ ″	May 13 h m		h m			°	°
19. 30	22. 11. 40	8. 25	·0991					
19. 50	15. 10	8. 45	·1009					
19. 56	22. 15	10. 57	·0996					
20. 20	13. 10	11. 2	·1024					
23. 58	30. 50	11. 23	·0987					
		11. 33	·0994					
		12. 2	·0968					
		12. 28	·0994					
		12. 48	·0984					
		14. 18	·1012					
		15. 3	·1006					
		18. 18	·1012					
		22. 50	·0987					
		23. 40	·0997					
May 14		May 14		May 14				
0. 10	22. 31. 40	1. 10	·0992	0. 10	·01050	1	57 ·0	60 ·0
4. 52	29. 0	4. 50	·1022	10. 35:	·00405	3	60 ·0	64 ·0
5. 8	22. 20	5. 0	·1003	20. 37	·01150	9	60 ·0	64 ·0
13. 30:	24. 20	5. 30	·1049	23. 40	·01060	21	54 ·0	58 ·0
19. 55	17. 0	5. 52	·1031					
23. 56	30. 15	8. 35	·1018					
		17. 30	·1016					
		22. 18	·0992					
		23. 55	·0994					
May 15		May 15		May 15				
0. 0	22. 30. 50	1. 0	·0993	0. 0	·01060	1	56 ·0	60 ·0
1. 50	34. 0	11. 0	·1024	10. 30:	·00514	3	59 ·0	63 ·0
15. 0:	23. 30	15. 40	·1017	17. 8	·01120	9	62 ·0	63 ·0
20. 40	19. 25	18. 28	·1035	23. 45	·00962	21	50 ·0	54 ·0
23. 55	30. 0	23. 0	·0996					
		23. 58	·1003					
May 16		May 16		May 16				
0. 10	22. 31. 0	0. 10	·1004	0. 30	·00918	1	55 ·0	59 ·0
2. 1	32. 35	2. 0	·1019	4. 30	·00470	3	60 ·0	64 ·0
9. 16	21. 0	3. 15	·0996	8. 12	·00574	9	60 ·0	63 ·0
11. 32	25. 0	4. 25	·1008	10. 50:	·00482	21	54 ·0	59 ·0
12. 3	22. 20	5. 5	·0998	20. 0	·01150			
13. 34	27. 30	5. 25	·1011	23. 50	·01106			
14. 30	23. 35	5. 40	·1004					
20. 25	20. 0	6. 7	·1020					
23. 52	26. 20	7. 15	·1026					
		9. 10	·0987					
		17. 35	·1033					
		19. 10	·1018					
		21. 8	·0987					
		23. 10	·1006					
May 17		May 17		May 17				
0. 0	22. 27. 0	0. 20	·1015	0. 0	·01098	1	58 ·0	61 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 17	° ′ ″	May 17		May 17			°	°
h m		h m		h m				
1. 56	22. 30. 10	3. 30	·1015	5. 40	·00528	3	60·0	65·0
7. 40	21. 30	6. 0	·1042	8. 0:	·00593	9	64·0	67·0
10. 15	24 30	6. 40	·1027	10. 30:	·00520	21	58·0	61·0
10. 55	18. 45	7. 50	·1032	20. 20	·01205			
11. 25	24. 35	8. 37	·1020	23. 45	·01180			
20. 3	19. 0	9. 50	·1032					
23. 58	28. 15	11. 20	·1023					
		11. 42	·1033					
		13. 40	·1013					
		17. 38	·1028					
		23. 45	·0996					
May 18		May 18		May 18				
0. 30	22. 30. 0	0. 20	·0999	0. 30:	·01148	1	60·0	64·0
1. 55	32. 0	5. 0	·1030	10. 0:	·00522	3	62·0	66·0
12. 10	22. 0	6. 20	·1018	17. 10	·01200	9	64·5	67·5
14. 25	24. 0	11. 0	·1039	23. 50	·01045	22	59·5	61·0
15. 3	22. 0	12. 42	·1019					
15. 33	26. 15	15. 45	·1021					
19. 18	18. 10	17. 40	·1036					
23. 58	30. 0	23. 55	·0977					
May 19		May 19		May 19				
0. 0	22. 30. 0	0. 0	·0977	0. 0	·01038	9	63·5	67·0
16. 30	16. 25	7. 30	·1009	4. 27	·00495	21	56·0	60·0
22. 45	22. 50	9. 0	·0994	8. 12:	·00602			
		12. 0	·1013	10. 30:	·00550			
		14. 10	·0994	17. 45	·01203			
		16. 0	·1008	22. 40	·01168			
		16. 30	·0998					
		17. 25	·1009					
		22. 30	·0981					
May 20		May 20		May 20				
0. 0	22. 26. 50	0. 0	·0980	0. 0	·01117	1	60·0	64·0
1. 15	32. 35	5. 40	·1018	5. 25	·00520	3	63·0	66·0
8. 45	20. 0	6. 28	·1003	8. 55:	·00641	9	64·0	68·0
14. 58	27. 45	11. 20	·0990	10. 30:	·00576	21	58·0	64·0
18. 58	19. 20	14. 45	·1004	21. 10	·01300			
23. 55	31. 5	15. 7	·1017	22. 30	·01230			
		19. 15	·0988					
		20. 0	·1020					
		23. 58	·0987					
May 21		May 21		May 21				
0. 45	22. 32. 45	0. 37	·0993	1. 0	·00780	1	67·0	69·0
12. 30:	21. 10	1. 50	·0991	1. 45	·00630	3	70·0	74·0
20. 15	15. 50	3. 32	·1000	8. 40	·00543	9	70·0	74·0
23. 58	28. 0	7. 58	·0965	14. 12	·01175	21	60·0	64·0
		18. 8:	·1013	23. 55:	·01075			
		21. 30	·0995					
		23. 58	·0999					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 22	° ′ ″	May 22		May 22			°	°
h m		h m		h m				
0. 10	22. 27. 55	0. 0	·0998	0. 0	·01280	1	60·0	65·0
1. 40	32. 20	7. 10	·1021	11. 0:	·00714	3	61·0	66·0
	***	17. 10	·1017	19. 2	·01302	9	65·0	69·0
11. 30:	23. 0	22. 50	·0990	23. 45:	·01192	21	58·0	62·0
	***	23. 42	·0996					
13. 0	20. 15							
	***							
14. 15:	23. 0							
	***							
19. 25	15. 10							
	***							
23. 58	31. 30							
May 23		May 23		May 23				
0. 45	22. 33. 40	0. 30	·0997	0. 30	·01160	1	60·0	65·0
7. 0	23. 20	4. 27	·1019	5. 28	·00588	3	65·0	69·0
	***	5. 13	·1010	8. 20:	·00640	9	69·0	70·0
8. 45	19. 55	6. 0	·1018	10. 18:	·00589	21	58·0	62·0
	***	6. 40	·1010	17. 2	·01330			
15. 15:	22. 0	7. 25	·1017	23. 55	·01012			
	***	8. 10	·1008					
19. 10	18. 20	11. 46	·1017					
23. 55	31. 0	12. 18	·1029					
		14. 20	·1008					
		18. 35	·1022					
		19. 13	·1036					
		22. 0	·1017					
		23. 55	·1031					
May 24		May 24		May 24				
0. 30	22. 31. 0	0. 48	·1024	0. 30	·00925	1	63·0	66·0
5. 30	25. 30	1. 5	·1017	4. 10	·00497	3	63·0	68·0
	***	1. 30	·1032	8. 40:	·00578	9	64·0	67·0
19. 30	20. 0	1. 50	·1022	10. 10:	·00542	21	60·0	63·0
23. 58	28. 10	2. 57	·1030	18. 50	·01306			
		3. 22	·1017	23. 55:	·01182			
		4. 20	·1026					
		5. 5	·1022					
		5. 27	·1032					
		6. 10	·1026					
		6. 50	·1039					
		7. 25	·1025					
		8. 0	·1030					
		9. 10	·1022					
		16. 10:	·1030					
		22. 3	·1012					
		23. 58	·1014					
May 25		May 25		May 25				
0. 30	22. 28. 50	0. 52	·1019	0. 30	·01160	1	60·0	64·0
6. 15	21. 30	1. 28	·1012	10. 25:	·00515	3	63·5	65·5
9. 46:	24. 0	11. 20:	·1025	19. 30	·01234	9	65·0	67·0
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 25		May 25		May 25				
h m	° ′ ″	h m		h m			°	°
19. 45	22. 19. 30	18. 28	·1018	23. 45	·01055	22	61 ·0	62 ·0
23. 45	29. 15	18. 50	·1028					
		21. 27	·1002					
		23. 45	·1004					
May 26		May 26		May 26				
0. 0	22. 30. 20	0. 0	·1007	0. 15	·01034	9	64 ·5	66 ·5
5. 0	23. 10	6. 55	·1029	11. 15:	·00470	21	59 ·0	63 ·0
9. 39	24. 30	7. 30	·1042	23. 30:	·01075			
11. 15	24. 50	9. 0	·1032					
11. 50	27. 20	11. 40	·1045					
12. 32	24. 10	15. 33	·1031					
14. 30	23. 25	16. 5	·1043					
14. 55	25. 50	23. 36	·1013					
19. 40	17. 50							
23. 55	30. 0							
May 27		May 27		May 27				
1. 0	22. 34. 0	1. 0	·1018	0. 10	·01078	1	61 ·0	64 ·0
9. 15	22. 10	4. 10	·1039	10. 40:	·00515	3	64 ·0	65 ·5
13. 0	21. 50	4. 37	·1029	19. 35	·01230	9	64 ·0	67 ·5
18. 30	21. 30	5. 30	·1040	23. 58	·01037	21	62 ·0	64 ·0
23. 58	32. 30	7. 30	·1031					
		8. 35	·1045					
		9. 7	·1029					
		13. 33	·1033					
		20. 30	·1019					
		23. 30	·1012					
May 28		May 28		May 28				
0. 30	22. 35. 0	0. 30	·1018	0. 32	·00979	1	63 ·0	66 ·0
9. 30	24. 25	1. 52	·1008	4. 28	·00532	3	65 ·0	67 ·0
	***	2. 30	·1023	8. 10:	·00615	9	67 ·0	69 ·5
16. 0	26. 15	2. 58	·1018	10. 40	·00570	21	61 ·0	62 ·0
23. 30	28. 30	4. 0	·1026	17. 3	·01296			
		4. 50	·1020	23. 28	·01078			
		6. 0	·1032					
		8. 12	·1021					
		8. 55	·1029					
		9. 54	·1022					
		10. 28	·1032					
		12. 36	·1021					
		13. 45	·1030					
		14. 5	·1023					
		16. 40	·1036					
		23. 40	·1008					
May 29		May 29		May 29				
0. 0	22. 29. 30	0. 0	·1006	0. 30:	·00758	1	64 ·0	66 ·0
1. 30	32. 25	3. 25	·1004	10. 30:	·00715	3	68 ·0	68 ·0
6. 30	22. 0	5. 3	·1018	15. 30	·01370	9	71 ·0	72 ·5
19. 25	18. 55	5. 35	·1010	23. 30	·01282	21	63 ·0	64 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 29		May 29						
h m	° ′ ″	h m		h m			°	°
23. 45	22. 30. 20	6. 32	·1024					
		11. 0	·1004					
		13. 10	·1017					
		15. 30	·1015					
		16. 30	·1006					
		18. 30	·1016					
		21. 47	·1002					
		23. 52	·1008					
May 30		May 30		May 30				
0. 0	22. 31. 0	0. 40	·1005	0. 0	·01230	1	65 ·0	67 ·0
1. 30	32. 20	7. 40	·1023	5. 3	·00613	3	67 ·0	69 ·0
15. 0:	22. 15	18. 30:	·1022	8. 30:	·00728	9	68 ·0	73 ·0
	***	18. 58	·1033	10. 38:	·00662	21	63 ·0	63 ·5
18. 30	19. 55	23. 10	·1000	16. 38	·01368			
23. 45	30. 55			23. 30	·01172			
May 31		May 31		May 31				
0. 0	22. 31. 10	0. 5	·1010	0. 0	·01096	1	68 ·5	68 ·5
5. 30	22. 0	9. 20	·0988	1. 59	·00650	3	71 ·5	73 ·0
18. 50	17. 55	18. 25	·1002	14. 40	·01364	9	73 ·0	76 ·0
23. 45	31. 0	19. 0	·1020	23. 40	·01168	21	65 ·5	63 ·5
		23. 30	·0996					
June 1		June 1	(†)	June 1				
6. 20	22. 24. 0	6. 16	·1000	6. 20	·00624	1	65 ·0	70 ·0
	***	7. 40	·0996	13. 8	·01330	3	70 ·0	75 ·0
9. 40	23. 0	8. 20	·1004	23. 20	·01080	9	65 ·0	70 ·0
10. 20	19. 30	10. 0	·0996			22	60 ·0	65 ·0
10. 42	28. 0	10. 30	·1017					
11. 33	17. 40	11. 4	·0982					
	***	12. 38	·1001					
12. 5:	17. 0	14. 35	·0983					
	***	17. 40	·0994					
15. 0	21. 50	19. 15	·1042					
	***	23. 20	·1011					
18. 32	16. 0							
23. 20	33. 5							
June 2		June 2		June 2				
0. 30	22. 35. 50	0. 0	·1018	0. 0	·00988	11	67 ·0	70 ·0
0. 57	36. 0	0. 15	·1009	2. 12	·00532	21	60 ·0	65 ·0
1. 28	31. 55	0. 55	·1015	15. 30	·01298			
1. 46	33. 20	1. 23	·0992	23. 0	·01220			
3. 36	25. 55	1. 50	·1010					
7. 47	16. 30	2. 35	·1005					
12. 5	20. 0	3. 20	·0988					
12. 54	24. 0	3. 58	·1006					
15. 10	15. 45	5. 0	·0991					
16. 40	19. 50	5. 58	·1009					
19. 40	18. 5	6. 20	·1002					
23. 30	29. 30	6. 36	·1008					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	June 2 h m		h m			°	°
		8. 37	·0986					
		12. 50	·0999					
		13. 32	·0986					
		14. 48	·0999					
		15. 30	·0991					
		18. 30	·1003					
		19. 0	·1023					
		19. 28	·1009					
		20. 8	·1016					
		21. 53	·1002					
		23. 20	·1000					
June 3		June 3		June 3				
0. 40	22. 29. 50	0. 25	·0994	0. 30	·01068	1	65·0	69·0
12. 0	21. 0	1. 38	·1005	3. 0	·00592	3	70·0	76·0
13. 0	16. 5	2. 52	·0975	15. 3	·01325	9	71·0	76·0
15. 10	19. 40	3. 26	·0983	23. 45	·01126	21	60·0	66·0
19. 30	14. 35	4. 30	·0968					
23. 58	31. 40	5. 13	·0977					
		6. 0	·0971					
		6. 25	·0984					
		7. 25	·0974					
		12. 6	·0984					
		13. 30	·0973					
		18. 15	·0997					
		18. 58	·1030					
		21. 5	·0995					
		22. 55	·1022					
		23. 58	·1014					
June 4		June 4		June 4				
0. 30	22. 31. 0	0. 30	·1007	0. 0	·01103	1	65·0	69·0
1. 10	33. 10	2. 55	·1000	2. 50	·00590	3	70·0	77·0
8. 15	20. 0	7. 56	·1019	14. 40	·01270	9	70·0	72·0
8. 30	21. 50	10. 0	·0992	23. 50	·01136	21	63·0	65·0
10. 25	13. 20	20. 55	·1045					
12. 0	18. 0	23. 55	·1028					
13. 5	9. 55							
14. 10	21. 30							
16. 0	10. 50							
23. 55	32. 0							
June 5		June 5		June 5				
0. 0	22. 32. 15	0. 32	·1016	0. 30	·01074	1	66·0	70·0
	***	1. 20	·1024	3. 43	·00600	3	72·5	73·0
9. 33	20. 0	4. 22	·1006	17. 40	·01355	9	70·0	75·0
10. 10	13. 0	8. 35	·1036	23. 30	·01290	21	63·0	66·0
14. 15	22. 40	9. 40	·1025					
18. 40	12. 30	10. 5	·1039					
19. 25	20. 10	10. 45	·1013					
19. 43	16. 30	16. 30	·1038					
23. 55	31. 30	18. 42	·1028					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	June 5 h m		h m			°	°
		19. 0	·1017					
		19. 20	·1033					
		19. 35	·1019					
		21. 38	·1039					
		23. 58	·0974					
June 6		June 6		June 6				
1. 5	22. 34. 5	0. 37	·0966	0. 30	·01285	1	65·0	69·0
6. 10	30. 30	2. 22	·0980	7. 35:	·01440	3	65·0	69·0
7. 10	26. 30	3. 30	·0971	23. 55	·01102	9	60·0	64·0
8. 20	21. 0	5. 44	·1006			21	60·5	62·0
9. 5	25. 30	9. 12	·0978					
9. 25	22. 10	9. 35	·0991					
10. 8	25. 50	10. 20	·0973					
11. 58	25. 25	12. 30	·1001					
12. 58	18. 30	13. 48	·0977					
15. 8	27. 55	15. 35	·0986					
20. 15	21. 0	23. 30	·0960					
23. 58	33. 0							
June 7		June 7		June 7				
0. 35	22. 34. 15	0. 20	·0961	0. 30	·01070	1	61·0	63·0
2. 0	37. 0	6. 20	·0997	4. 12	·00620	3	65·0	68·0
11. 30	27. 0	7. 32	·0990	4. 52	·00702	9	66·0	67·5
12. 58	18. 50	7. 56	·0999	10. 23:	·00614	21	62·0	62·0
13. 55	23. 55	9. 50	·0987	16. 30	·01155			
14. 5	20. 10	11. 50	·0982	23. 55	·01032			
14. 45	24. 15	12. 32	·0988					
18. 32	17. 55	13. 15	·0967					
23. 58	32. 0	15. 20	·0996					
		23. 45	·0955					
June 8		June 8		June 8				
0. 15	22. 32. 35	1. 0	·0949	0. 30	·01005	1	60·0	65·0
2. 0	37. 10	4. 32	·0990	11. 0:	·00632	3	61·0	66·0
8. 55	24. 10	6. 40	·0973	16. 40:	·01098	9	64·0	68·0
9. 15	16. 30	7. 40	·0980	23. 40	·01080	22	63·5	63·5
10. 30	25. 45	8. 20	·0974					
15. 0	24. 20	8. 56	·0980					
16. 3	33. 20	9. 12	·0976					
18. 28	18. 45	9. 30	·0995					
18. 54	25. 40	11. 0	·0973					
19. 30	19. 10	12. 10	·0986					
23. 42	33. 25	16. 15	·0972					
		17. 0	·0987					
		18. 48	·0987					
		19. 30	·0970					
		23. 28	·0966					
June 9		June 9		June 9				
0. 0	22. 34. 0	0. 18	·0970	0. 0	·01060	9	71·0	72·0
0. 30	35. 0	3. 10	·0975	2. 38	·00645	21	60·0	65·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
June 9		June 9		June 9				
h m	° ′ ″	h m		h m			°	°
6. 15	22. 25. 0	3. 38	·0967	15. 40	·01250			
	***	4. 15	·0982	23. 15	·01158			
12. 30	25. 5	5. 18	·0958					
13. 20	28. 0	6. 15	·0975					
14. 8	24. 25	7. 2	·0966					
19. 20	20. 0	7. 25	·0977					
23. 58	33. 0	12. 30	·0964					
		13. 5	·0976					
		14. 30	·0964					
		19. 10	·0980					
		23. 30	·0956					
June 10		June 10		June 10				
1. 0	22. 33. 10	3. 5	·0965	1. 0	·01023	1	65 ·0	69 ·0
7. 30	19. 30	6. 55	·0990	2. 45	·00725	3	69 ·5	72 ·5
8. 0	16. 0	7. 48	·0980	8. 0	·00834	9	73 ·0	74 ·5
8. 40	21. 10	8. 8	·0994	11. 0:	·00730	21	62 ·0	64 ·0
9. 12	19. 20	10. 17	·0971	15. 48	·01272			
13. 5	21. 30	12. 33	·0973	23. 58	·01152			
13. 30	24. 30	12. 42	·0986					
14. 12	21. 0	13. 8	·0978					
16. 30	25. 5	14. 2	·0990					
19. 0	18. 40	14. 48	·0975					
23. 58	33. 0	17. 30	·0992					
		19. 40	·0977					
		20. 35	·0988					
		23. 0	·0960					
		23. 50	·0971					
June 11		June 11		June 11				
0. 0	22. 32. 55	1. 0	·0967	0. 30	·01100	1	68 ·0	72 ·0
6. 30	20. 0	4. 30	·0962	2. 18	·00742	3	75 ·0	79 ·0
14. 30	25. 50	6. 50	·0981	5. 8:	·00880	9	75 ·0	79 ·0
21. 0	18. 20	9. 34	·0972	10. 0:	·00720	21	66 ·5	67 ·5
23. 58	28. 15	18. 30	·0993	15. 23	·01240			
		19. 12	·1013	23. 30	·01160			
		23. 15	·0983					
June 12		June 12		June 12				
0. 0	22. 28. 55	0. 0	·0992	0. 0	·01150	1	68 ·5	68 ·0
2. 5	33. 35	7. 0	·1024	8. 0:	·00815	3	68 ·0	71 ·0
8. 30	23. 0	11. 30	·1014	14. 45	·01154	9	68 ·0	68 ·5
14. 30	24. 30	18. 30	·1025	23. 30	·01038	21	60 ·0	65 ·0
20. 30	19. 10	23. 45	·1004					
23. 55	29. 0							
June 13		June 13		June 13				
0. 0	22. 27. 10	0. 0	·0981	0. 0	·01030	1	61 ·0	66 ·0
2. 27	32. 30	4. 55	·0998	8. 45	·00595	3	64 ·0	69 ·0
8. 45	20. 30	5. 0	·1037	9. 57	·00312	9	66 ·0	68 ·0
9. 28	13. 10	5. 30	·1017	10. 10	·00460	21	59 ·5	62 ·0
10. 0	22. 5	7. 0	·1032	11. 5	·00379			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
June 13		June 13		June 13				
h m	° ′ ″	h m		h m			°	°
10. 15	21. 55. 0	7. 28	·1055	12. 25	·00290			
10. 38	22. 2. 20	9. 40	·0982	16. 18	·01062			
11. 10	19. 10	10. 2	·0954	23. 40	·00990			
11. 30	9. 50	10. 20	·1007					
11. 58	13. 0	11. 15	·0955					
12. 25	26. 50	11. 30	·0963					
13. 30	15. 35	12. 8	·0953					
14. 17	21. 55	12. 45	·0979					
15. 53	17. 45	13. 8	·0959					
16. 30	22. 0	15. 0	·0984					
17. 20	16. 25	16. 0	·0973					
23. 58	30. 5	19. 5	·0994					
		23. 23	·0975					
June 14		June 14		June 14				
0. 15	22. 31. 30	0. 45	·0991	0. 8	·00968	1	58 ·0	61 ·0
2. 35	35. 20	2. 40	·1008	11. 15	·00518	3	60 ·0	63 ·0
6. 30	27. 0	3. 28	·0991	19. 30:	·00882	9	63 ·0	64 ·5
10. 25	26. 0	4. 0	·1017	23. 50	·00830	21	55 ·0	58 ·0
10. 58	29. 15	8. 10	·1024					
11. 10	22. 50	9. 30	·1003					
11. 35	27. 30	10. 53	·1006					
11. 57	22. 50	11. 12	·1024					
15. 30	25. 0	11. 45	·0996					
16. 10	29. 0	12. 9	·1008					
17. 20	24. 55	16. 40	·1014					
17. 47	27. 10	21. 15	·0984					
19. 45	22. 40	23. 55	·0992					
23. 58	32. 0							
June 15		June 15		June 15				
0. 30	22. 33. 40	0. 30	·0994	0. 30	·00812	1	55 ·0	58 ·0
6. 0	27. 50	7. 30	·1017	10. 30:	·00435	3	58 ·0	60 ·0
8. 50	24. 50	18. 50	·1010	16. 40	·00972	10	61 ·0	63 ·0
20. 15	19. 0	23. 40	·0984	23. 55	·00744	23	56 ·0	57 ·0
23. 55	31. 50							
June 16		June 16		June 16				
1. 0	22. 33. 0	0. 0	·0987	0. 5	·00723	9	68 ·0	69 ·0
4. 30	27. 40	1. 30	·0979	2. 20	·00420	21	62 ·0	62 ·0
8. 40	23. 30	6. 5	·1000	17. 15:	·01144			
20. 25	18. 30	12. 20	·0993	23. 55	·01018			
23. 58	30. 0	18. 48	·1004					
		23. 45	·0985					
June 17		June 17		June 17				
1. 0	22. 31. 15	1. 0	·0986	2. 0	·00792	1	64 ·0	64 ·0
6. 0	23. 30	3. 12	·1000	2. 54	·00528	3	68 ·0	68 ·0
20. 0:	20. 40	5. 28	·0986	8. 40:	·00525	9	66 ·0	68 ·5
23. 45	32. 55	8. 38	·1003	15. 37	·01095	21	62 ·0	62 ·0
		10. 48	·0993	23. 55	·00918			
		19. 15	·1004					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	June 17 h m		h m			°	°
		23. 0	·0973					
June 18		June 18		June 18				
0. 10	22. 33. 0	0. 28	·0997	1. 0	·00845	1	67 ·0	67 ·5
6. 0	21. 30	1. 25	·0976	2. 20	·00570	3	69 ·0	69 ·5
10. 50	22. 45	2. 23	·0995	15. 38	·01162	9	70 ·0	72 ·5
11. 58	30. 55	3. 8	·0961	23. 55	·01062	21	63 ·0	63 ·0
12. 30	18. 5	3. 40	·0970					
14. 20	21. 0	4. 5	·0963					
20. 15	16. 30	4. 28	·0976					
23. 50	27. 50	6. 0	·0965					
		11. 35	·0992					
		12. 20	·0954					
		18. 33	·0994					
		23. 55	·0970					
June 19		June 19		June 19				
0. 0	22. 28. 0	1. 0	·0975	0. 0	·01052	1	68 ·0	68 ·0
1. 59	30. 55	2. 25	·0982	3. 30	·00563	3	70 ·0	70 ·0
7. 0	23. 10	2. 50	·0972	15. 15	·01170	9	70 ·0	72 ·5
7. 30	13. 0	3. 12	·0983	23. 40	·01018	21	63 ·0	63 ·0
8. 10	21. 50	4. 28	·0966					
14. 15	21. 0	5. 30	·0973					
19. 30:	20. 0	6. 32	·1000					
23. 55	31. 40	7. 5	·0989					
		7. 36	·1009					
		8. 28	·0970					
		16. 30	·0993					
		23. 58	·0959					
June 20		June 20		June 20				
0. 30	22. 32. 55	0. 30	·0961	0. 30	·00885	1	70 ·0	72 ·0
4. 10	26. 40	7. 30	·0972	1. 48	·00640	3	74 ·0	73 ·5
6. 30	22. 30	14. 15	·0969	10. 0:	·00665	9	74 ·0	76 ·0
8. 30	17. 10	18. 58	·0984	15. 14	·01248	21	65 ·5	67 ·0
	***	19. 28	·0998	23. 56	·01115			
13. 30	22. 0	23. 42	·0975					
23. 48	30. 5							
June 21		June 21		June 21				
0. 0	22. 30. 20	0. 30	·0973	0. 0	·01195	1	73 ·0	73 ·5
	***	5. 0	·0952	2. 24	·00698	3	75 ·0	78 ·0
6. 0	20. 5	11. 30	·0971	9. 25:	·00616	9	77 ·0	78 ·0
10. 50	22. 30	13. 30	·0953	13. 58	·01160	21	67 ·5	67 ·0
11. 5	20 0	15. 35	·0977	23. 30	·01022			
11. 35	24. 30	16. 0	·0972					
13. 30	16. 55	18. 50	·0982					
15. 0	23. 0	19. 13	·1005					
15. 55	12. 0	23. 0	·0982					
17. 20	16. 55							
19. 10	15. 30							
23. 58	30. 50							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
June 22 h m	° ′ ″	June 22 h m		June 22 h m			°	°
1. 0	22. 32. 25	1. 3	·0984	1. 15	·00895	1	76 ·0	76 ·0
5. 25	22. 30	2. 40	·0991	3. 18	·00558	3	74 ·0	76 ·0
	***	6. 15	·0977	7. 35:	·00634	9	77 ·0	79 ·0
13. 0	21. 50	7. 0	·0985	10. 30:	·00578	22	70 ·5	71 ·0
19. 0:	16. 0	9. 2	·0973	15. 53	·01220			
	***	17. 0:	·0980	23. 40	·01067			
23. 35	29. 50	23. 15:	·0956					
June 23		June 23		June 23				
0. 0	22. 30. 0	0. 9	·0962	0. 15	·01030	9	81 ·0	82 ·0
5. 30	22. 30	2. 40	·0975	3. 18	·00538	21	74 ·0	74 ·0
7. 30	17. 50	3. 50	·0964	6. 50:	·00660			
13. 0	20. 30	6. 0	·0972	11. 0:	·00492			
16. 0	18. 50	8. 30	·0961	17. 45	·01105			
16. 30	20. 50	16. 45	·0958	23. 15	·01078			
	***	20. 0	·0966					
23. 58	29. 10	22. 32	·0951					
		23. 55	·0961					
June 24		June 24		June 24				
0. 15	22. 29. 0	0. 20	·0957	0. 10	·01014	1	78 ·0	78 ·0
6. 0	23. 30	6. 30	·0976	4. 25	·00430	3	79 ·5	80 ·0
9. 30	20. 0	7. 0	·0968	13. 15	·01080	9	77 ·0	77 ·0
15. 0	21. 10	7. 45	·0976	23. 45	·00825	21	70 ·5	71 ·5
18. 50	19. 10	10. 0	·0970					
23. 58	31. 55	11. 0	·0981					
		14. 12	·0966					
		18. 45	·0973					
		19. 15	·1001					
		23. 45	·0962					
June 25		June 25		June 25				
0. 20	22. 32. 0	0. 30	·0964	0. 30	·00730	1	76 ·0	77 ·0
	***	9. 37	·0976	2. 12	·00368	3	78 ·5	81 ·0
9. 26	19. 0	18. 0	·0994	6. 38:	·00375	9	74 ·0	78 ·0
	***	19. 0	·1001	12. 45	·01075	21	65 ·5	67 ·5
18. 30	21. 0	20. 15	·1024	23. 55	·00760			
	***	23. 30	·1003					
23. 55	30. 0							
June 26		June 26		June 26				
0. 0	22. 30. 0	0. 0	·0998	0. 0	·00742	1	72 ·0	73 ·5
7. 30	21. 30	7. 20	·0973	2. 35	·00300	3	73 ·0	76 ·0
11. 35	19. 20	17. 20	·1006	5. 55	·00410	9	75 ·5	78 ·0
20. 45	18. 0	22. 50	·0982	8. 25:	·00335	21	64 ·0	67 ·0
23. 40	29. 0	23. 20	·0984	15. 15	·01078			
				23. 30	·00888			
June 27		June 27		June 27				
0. 0	22. 30. 0	0. 0	·0976	0. 0	·00885	1	65 ·0	68 ·5
2. 2	33. 20	1. 0	·0996	8. 0:	·00594	3	68 ·5	69 ·0
5. 30	31. 0	1. 42	·0975	13. 5	·00890	9	67 ·0	69 ·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
June 27		June 27		June 27				
h m s	° ′ ″	h m s		h m s			□	○
6. 28	22. 21. 5	4. 20	·1005	23. 12	·00548	21	60 ·0	63 ·5
7. 30	24. 25	5. 45	·0981					
11. 10	21. 55	6. 2	·1000					
11. 55	25. 30	6. 10	·0987					
12. 40	22. 30	6. 28	·1004					
13. 50	27. 10	6. 58	·0989					
14. 40	18. 55	12. 0	·1000					
15. 35	25. 0	13. 20	·0989					
19. 30	22. 0	17. 10	·0994					
23. 50	31. 0	18. 48	·1024					
		23. 50	·1005					
June 28		June 28		June 28				
0. 0	22. 30. 0	0. 0	·1004	0. 0	·00400	1	64 ·0	66 ·5
2. 14	36. 5	4. 3	·1021	3. 48	·00092	3	66 ·0	67 ·0
6. 50	27. 15	7. 0	·1006	9. 30	·00272	9	68 ·0	72 ·0
7. 12	23. 25	9. 5	·1002	10. 57	·00204	21	64 ·0	66 ·0
7. 45	26. 0	9. 53	·1001	20. 55	·00978			
10. 30	21. 30	10. 10	·1014	21. 53	·00948			
	***	22. 45	·0986					
14. 14	24. 50	23. 55	·0990					
18. 0	21. 20							
23. 50	30. 0							
June 29		June 29		June 29				
0. 10	22. 31. 25	0. 30	·0991	0. 0	·00918	1	64 ·0	66 ·5
	***		***	8. 0:	·00632	3	65 ·0	67 ·0
2. 0	35. 40	2. 58	·0997	14. 5	·00943	9	64 ·0	68 ·0
	***		***	23. 40	·00682	22	60 ·0	62 ·0
6. 30	22. 30	5. 15	·0967					
	***		***					
10. 10:	20. 20	9. 20	·0976					
	***		***					
14. 20	24. 20	9. 50	·0987					
	***		***					
21. 40	21. 55	11. 45	·0971					
	***		***					
23. 40	26. 30	19. 30	·1014					
			***					
		23. 58	·0974					
June 30		June 30		June 30				
0. 0	22. 27. 0	0. 0	·0978	0. 2	·00568	9	69 ·0	70 ·0
	***		***	3. 8	·00140	21	66 ·0	67 ·5
2. 45	32. 0	3. 52	·0997	23. 50	·00842			
	***		***					
7. 30	23. 30	5. 16	·0990					
	***		***					
11. 30	25. 0	6. 32	·0997					
	***		***					
12. 10:	22. 50	23. 50	·0974					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
June 30								
h m	° ′ ″	h m		h m			○	○
15. 0:	22. 24. 0							
	***							
20. 30	20. 55							
	***							
23. 40	26. 10							
July 1		July 1		July 1				
0. 0	22. 28. 0	0. 30	·0975	0. 0	·00860	1	65 ·0	69 ·0
	***		***	5. 10:	·00498	3	67 ·0	70 ·0
3. 11	32. 55	6. 20	·0985	13. 35	·00966	9	65 ·0	68 ·0
	***		***	23. 30	·00762	21	63 ·2	62 ·5
6. 15	24. 50	6. 52	·1002					
	***		***					
8. 30	25. 30	7. 28	·0990					
	***		***					
14. 45	20. 30	12. 35	·1004					
18. 30	16. 25		***					
20. 15	22. 10	13. 45	·0996					
21. 15	20. 0		***					
23. 33	36. 0	18. 34	·1012					
			***					
		23. 22	·0940					
July 2		July 2		July 2				
0. 20	22. 32. 45	1. 0	·0981	0. 20	·01020	1	65 ·0	68 ·0
1. 30	34. 50		***	1. 45	·00772	3	68 ·0	71 ·0
	***	1. 37	·0957	14. 50	·01360	9	68 ·0	69 ·0
5. 30	23. 50		***	23. 52	·01244	21	62 ·0	63 ·0
	***	1. 58	·0968					
12. 0	24. 20		***					
	***	3. 12	·0940					
13. 20	28. 50		***					
	***	13. 50	·0979					
19. 50	19. 30		***					
	***	14. 10	·0994					
23. 45	29. 10		***					
		16. 10	·0988					
			***					
		20. 30	·1012					
			***					
		22. 50	·9988					
July 3		July 3		July 3				
0. 12	22. 30. 0	0. 58	·1006	0. 0	·01240	1	63 ·0	66 ·0
2. 17	31. 55	3. 22	·0975	4. 30	·00835	3	65 ·0	69 ·0
7. 35	24. 10	8. 35	·0994	17. 12	·01452	9	68 ·0	72 ·0
20. 15	20. 0	17. 37	·0994	23. 50	·01343	21	60 ·0	64 ·0
23. 55	32. 5	21. 52	·0970					
		23. 58	·0986					
July 4		July 4		July 4				
0. 15	22. 33. 0	0. 30	·0985	1. 0	·01298	1	62 ·0	66 ·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 4		July 4		July 4				
h m	° ′ ″	h m		h m			°	°
7. 15	22. 25. 50	3. 38	·0996	9. 52:	·00894	3	63·0	66·0
10. 50	24. 0	4. 28	·1016	14. 54	·01382	9	65·5	68·0
20. 15	21. 0	5. 30	·0983	23. 55	·01100	21	61·0	62·5
23. 58	33. 20	6. 25	·0997					
		7. 50	·0991					
		8. 8	·0973					
		18. 0	·0977					
		23. 12	·0955					
July 5		July 5		July 5				
0. 30	22. 33. 30	0. 30	·0957	0. 30	·01022	1	62·0	64·0
6. 30	24. 0	19. 5	·0977	2. 40	·00718	3	67·5	68·0
13. 0	23. 30	23. 36	·0960	17. 8	·01448	9	68·0	70·0
20. 15	18. 0			23. 40	·01332	21	58·0	62·0
20. 45	22. 0							
23. 58	28. 30							
July 6		July 6		July 6				
0. 30	22. 30. 0	0. 30	·0977	0. 30	·01249	1	67·0	67·0
	***	1. 2	·0955	3. 15	·00776	3	68·0	68·0
2. 32	36. 50	1. 35	·0986	5. 33	·00840	9	68·0	70·0
	***	2. 25	·0942	11. 30:	·00660	22	60·0	65·0
5. 5	31. 50	2. 35	·0957	14. 20	·00691			
	***	2. 53	·0938	14. 30	·00612			
6. 12	22. 0	3. 0	·0954	23. 30	·01345			
	***	3. 22	·0940					
8. 0	23. 50	3. 37	·0975					
	***	4. 28	·0957					
9. 58	16. 30	4. 50	·0978					
	***	5. 0	·0961					
10. 30	20. 20	5. 12	·0977					
	***	5. 28	·0963					
11. 32	17. 0	5. 52	·0954					
	***	6. 32	·0977					
12. 2	18. 30	7. 18	·0953					
	***	8. 20	·0967					
12. 30	15. 0	9. 23	·0957					
	***	10. 5	·0979					
13. 32	20. 10	11. 35	·0958					
	***	12. 55	·0970					
14. 0	15. 20	13. 28	·0955					
	***	13. 48	·0974					
14. 18	33. 25	14. 10	·0940					
	***	14. 22	·0958					
14. 42	19. 45	14. 32	·0939					
	***	18. 30	·0958					
15. 0	21. 50	22. 52	·0945					
	***							
18. 15	14. 20							
	***							
19. 30	16. 0							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 6								
h m	° ′ ″	h m		h m			°	°
21. 0	22. 20. 10							
	***							
23. 28	25. 10							
July 7		July 7		July 7				
0. 0	22. 26. 50	0. 0	·0963	0. 0	·01430	11	63·5	65·0
	***	3. 0	·0983	7. 33	·01000	21	57·0	60·0
2. 0	32. 45	3. 28	·0963	14. 58	·01432			
5. 10	27. 30	3. 35	·0981	23. 10	·01325			
5. 30	30. 0	3. 42	·0967					
8. 30	24. 30	3. 58	·0982					
	***	4. 6	·0970					
19. 40	19. 10	4. 9	·0984					
23. 55	30. 0	4. 30	·0969					
		4. 55	·0973					
		5. 20	·1007					
		5. 52	·0961					
		6. 10	·0974					
		6. 25	·0961					
		7. 10	·0979					
		7. 35	·0960					
		12. 10	·0968					
		12. 18	·0977					
		12. 30	·0965					
		12. 50	·0996					
		13. 8	·0967					
		14. 12	·0975					
		14. 18	·0989					
		14. 32	·0972					
			***					
		21. 23	·0954					
			***					
		23. 40	·0964					
July 8		July 8		July 8				
1. 10	22. 33. 50	1. 5	·0968	1. 30	·01314	1	60·0	64·0
5. 0	26. 0	2. 56	·0981	11. 0:	·00560	3	64·0	67·0
11. 26	21. 0	11. 40	·0969	17. 5	·01240	9	63·5	68·0
13. 0	26. 0	12. 10	·0978	23. 55:	·01122	21	59·5	62·0
13. 30	23. 30	15. 30	·0964					
14. 12	26. 15	18. 20	·0970					
15. 12	20. 50	22. 0	·0957					
15. 55	25. 10	23. 50	·0965					
20. 5	17. 55							
23. 45	28. 0							
July 9		July 9		July 9				
0. 0	22. 29. 0	0. 20	·0963	0. 0	·01264	1	61·0	63·0
	***	2. 0	·0997	5. 5	·00750	3	65·0	66·0
2. 0	34. 40	3. 10	·0978	11. 45:	·00725	9	63·5	68·0
8. 45	22. 0	3. 32	·0998	16. 42	·01330	21	57·7	60·0
	***	4. 40	·0976	23. 35	·01249			

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 9		July 9						
h m	° ′ ″	h m		h m			°	°
13. 2	22. 15. 45	5. 28	·0998					
	***	7. 50	·0972					
13. 36	18. 40	12. 50	·0957					
	***	15. 18	·0980					
14. 30	16. 30	17. 0	·0958					
16. 0	16. 10	17. 25	·0972					
16. 45	21. 40	21. 30	·0947					
18. 30	19. 20	23. 58	·0960					
21. 30	22. 40							
23. 55	30. 0							
July 10		July 10		July 10				
0. 30	22. 30. 40	0. 30	·0957	0. 30	·01202	1	60 ·0	64 ·0
2. 42	32. 0	2. 45	·0974	4. 0	·00685	3	63 ·0	67 ·0
9. 56	21. 50	3. 55	·0958	19. 30	·01376	9	65 ·0	69 ·0
14. 20	21. 0	9. 0:	·0959	22. 45	·01420	21	64 ·0	64 ·0
15. 25	25. 20	15. 32	·0973	23. 58	·01322			
17. 50	16. 0	23. 30	·0935					
18. 50	22. 40							
23. 55	29. 30							
July 11		July 11		July 11				
0. 0	22. 30. 0	0. 0	·0931	0. 0	·01292	1	65 ·0	69 ·0
	***	5. 15	·0992	3. 15:	·00790	3	68 ·0	70 ·0
1. 45	28. 10	5. 40	·0978	8. 15:	·00875	9	66 ·0	69 ·0
	***	6. 12	·0994	12. 15	·00598	21	63 ·0	64 ·0
4. 30	32. 0	7. 0	·0972	22. 45:	·01490			
9. 20	23. 20	7. 50	·0969	23. 40	·01445			
	***	9. 40	·0960					
10. 10	21. 0	10. 10	·0965					
	***	10. 20	·0997					
10. 25	24. 0	10. 37	·0942					
	***	10. 55	·0958					
10. 53	3. 25	11. 50	·0925					
	***	12. 0	·0931					
11. 8	10. 0	12. 15	·0910					
	***	12. 42	·0968					
11. 28	6. 15	14. 40	·0984					
	***	15. 42	·0952					
11. 40	13. 15	17. 2	·0974					
	***	22. 3	·0918					
11. 55	9. 30	23. 50	·0941					
	***							
12. 5	23. 25							
12. 36	17. 0							
12. 58	20. 0							
13. 18	15. 10							
13. 30	17. 50							
13. 43	15. 55							
14. 8	21. 50							
15. 0	10. 50							
16. 8	21. 55							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 11								
h m	° ′ ″	h m		h m			°	°
16. 48	22. 13. 0							
17. 30	16. 50							
18. 43	14. 40							
19. 30	22. 25							
19. 50	19. 0							
23. 45	30. 55							
July 12		July 12		July 12				
0. 0	22. 32. 20	0. 15	·0928	0. 0	·01385	1	65 ·0	68 ·0
1. 0	35. 0	1. 5	·0917	0. 3	·00965	3	70 ·0	74 ·0
5. 10	31. 0	2. 35	·0977	5. 24	·01092	9	73 ·0	74 ·0
5. 28	25. 0		***	10. 0	·00824	21	61 ·0	64 ·0
5. 32	31. 0	3. 30	·0968	15. 0	·00438			
5. 35	24. 0	3. 55	·0984	22. 35:	·01485			
6. 12	33. 40	4. 15	·0970	23. 45	·01388			
8. 10	23. 50	4. 32	·0992					
8. 38	11. 30		***					
9. 20	25. 40	4. 50	·0968					
9. 28	18. 15		***					
9. 58	23. 5	4. 55	·0996					
11. 20	15. 20	5. 0	·0970					
11. 35	19. 5	5. 28	·1004					
13. 30	14. 20	5. 32	·0988					
14. 35	8. 20	5. 40	·0990					
15. 20	14. 15	5. 58	·0969					
15. 45	7. 50		***					
16. 33	22. 55	6. 3	·0986					
17. 8	17. 35		***					
17. 42	22. 10	6. 15	·0968					
19. 55	18. 20		***					
23. 55	30. 20	6. 40	·0950					
			***					
		6. 55	·0956					
		7. 5	·0937					
		7. 30	·0962					
			***					
		8. 4	·0935					
			***					
		8. 30	·0940					
		8. 50	·0972					
			***					
		9. 15	·0968					
		9. 28	·0936					
		9. 38	·0954					
		10. 0	·0936					
			***					
		10. 6	·0946					
			***					
		11. 0	·0975					
		11. 28	·0948					
			***					
		12. 0	·0934					

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	July 12 h m		h m			°	°
		12. 30	·0943					
		12. 52	·0937					
		13. 28	·0947					
		13. 58	·0931					
		14. 25	·0950 ***					
		16. 28	·0952					
		16. 33	·0962					
		18. 2	·0942					
		18. 20	·0956					
		23. 40	·0932					
July 13		July 13		July 13				
0. 0	22. 31. 0	1. 0	·0957	0. 0	·01420	1	67 ·0	70 ·0
4. 30	23. 15	1. 18	·0938	2. 26	·00840	3	74 ·0	77 ·0
9. 0	18. 40	1. 29	·0957	10. 15:	·00940	9	74 ·0	78 ·0
13. 10	20. 30	1. 31	·0948	17. 14	·01654	22	65 ·0	68 ·0
14. 0	25. 0	1. 55	·0958 ***	23. 30	·01560			
16. 42	18. 55							
17. 35	22. 15	6. 2	·0927 ***					
20. 3	16. 5							
23. 30	21. 45	23. 30	·0926					
July 14		July 14		July 14				
0. 0	22. 23. 10	1. 0	·0936	0. 30	·01552	11	70 ·0	73 ·0
2. 8	28. 40	18. 0	·0954	6. 25	·00900	21	65 ·0	69 ·0
6. 30	22. 0	22. 55	·0941	12. 10	·00882			
21. 28	20. 0	23. 42	·0922	18. 27	·01648			
23. 58	26. 45			23. 10	·01610			
July 15		July 15		July 15				
1. 0	22. 27. 20 ***	1. 30	·0936	1. 0	·01300	1	75 ·0	78 ·0
		1. 40	·0935	2. 18	·00990	3	78 ·0	80 ·0
6. 10	22. 35 ***	1. 50	·0926	10. 20:	·01058	9	78 ·0	80 ·0
		2. 52	·0938 ***	22. 20	·01678	21	70 ·0	74 ·0
6. 42	17. 45 ***			23. 58	·01572			
		6. 52	·0970 ***					
11. 15	19. 55 ***							
		12. 15	·0915 ***					
12. 0	15. 5							
12. 20	18. 0	13. 30	·0935 ***					
13. 0	12. 0							
13. 33	15. 50	16. 0	·0944 ***					
14. 8	14. 5							
14. 54	30. 10	16. 28:	·0976 ***					
15. 55	15. 10							
19. 10	19. 30	19. 0	·0954 ***					
20. 50	23. 30							
23. 55	30. 25	20. 30	·0975 ***					
		23. 30	·0946					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 16		July 16		July 16				
h m	° ′ ″	h m		h m			°	°
0. 30	22. 30. 40	0. 30	·0942	0. 30	·01485	1	75 ·0	78 ·0
3. 10	30. 0	2. 9	·0952	2. 20	·01080	3	80 ·0	83 ·0
4. 12	21. 55	2. 48	·0935	4. 10:	·01160	9	77 ·0	80 ·0
7. 15	17. 0	3. 12	·0943	8. 0:	·01050	21	69 ·5	71 ·5
17. 30	16. 35	4. 0	·0937	13. 20	·01702			
23. 15	24. 30	4. 28	·0946	23. 30	·01598			
		5. 0	·0936					
		6. 0	·0958					
		7. 2	·0946					
		8. 0	·0958					
		10. 33	·0950					
		23. 10	·0933					
July 17		July 17		July 17				
1. 0	22. 31. 0	1. 3	·0934	1. 52	·01098	1	71 ·0	74 ·0
6. 30	23. 30	3. 33	·0932	6. 50:	·00768	3	75 ·0	79 ·0
17. 15	20. 0	19. 30	·0953	18. 37	·01400	9	77 ·0	79 ·0
20. 50	16. 30	23. 0	·0930	21. 55	·01352	21	67 ·0	70 ·0
23. 58	25. 50							
July 18		July 18		July 18				
0. 35	22. 27. 10	0. 35	·0939	2. 30	·01120	1	66 ·0	68 ·0
2. 46	31. 0	5. 52	·0966	6. 50	·00770	3	69 ·0	71 ·0
5. 45	26. 0	5. 58	·0993 ***	9. 18	·00868	9	68 ·0	70 ·0
8. 50	24. 45			10. 40	·00802	21	64 ·0	67 ·0
9. 5	20. 0	7. 0	·0973	18. 38	·01400			
12. 50	25. 10	8. 20	·1007	21. 54	·01353			
17. 35	17. 50	9. 0	·0976					
23. 58	29. 20	11. 2	·0968					
		15. 25	·0975					
		15. 33	·0987 ***					
		20. 30	·0964					
		23. 58	·0973					
July 19		July 19		July 19				
0. 15	22. 30. 20	0. 40	·0972	0. 30	·01288	1	65 ·0	68 ·0
6. 30	21. 10	13. 26	·0982	9. 42	·01074	3	65 ·0	68 ·0
12. 0	22. 20	22. 58	·0971	22. 30	·01410	9	67 ·0	69 ·5
18. 0	18. 30			23. 55	·01372	21	60 ·0	63 ·0
20. 43	16. 0							
23. 58	25. 50							
July 20		July 20		July 20				
0. 30	22. 25. 10	0. 30	·0970	0. 20	·01038	1	62 ·0	65 ·0
6. 0	22. 30	2. 50	·0989	12. 18:	·00760	3	63 ·0	66 ·0
9. 10	16. 0	5. 42	·0981	22. 0:	·01038	9	65 ·0	68 ·0
11. 57	18. 45	7. 28	·1001	23. 58	·00910	22	65 ·0	68 ·0
12. 30	10. 48	10. 36	·0966					
13. 40:	16. 25	11. 15	·0976					
18. 0	15. 0	19. 33	·0962					
23. 55	29. 25	21. 0	·0965					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	July 20 h m		h m			°	°
		23. 30	·0948					
July 21		July 21		July 21				
0. 15	22. 29. 0	0. 30	·0956	0. 30	·00720	10	73 ·0	75 ·0
2. 28	31. 0	1. 42	·0946	1. 0	·00655	21	65 ·0	68 ·0
6. 30	22. 0	2. 28	·0957	11. 15	·00800			
8. 0	17. 0	3. 0	·0941	17. 10	·01360			
13. 0:	20. 30	4. 50	·0964	23. 58	·01245			
20. 30	15. 25	5. 15	·0957					
23. 58	27. 5	7. 28	·0977					
		11. 3	·0952					
		14. 38	·0968					
		23. 58	·0938					
July 22		July 22		July 22				
1. 15	22. 28. 35	0. 40	·0940	1. 30	·01052	2	73 ·0	76 ·0
6. 0	21. 10	6. 40	·0955	2. 22	·00840	3	76 ·0	79 ·0
14. 0:	18. 55	11. 10	·0941	7. 55:	·00985	9	78 ·0	82 ·0
15. 25	22. 0	15. 50	·0957	10. 30:	·00904	21	68 ·0	71 ·0
16. 10	17. 0	18. 45	·0956	14. 45	·01465			
16. 55	18. 20	19. 10	·0971	22. 29	·00442			
19. 45	14. 0	23. 20	·0949	23. 55	·01278			
23. 58	25. 10							
July 23		July 23		July 23				
0. 30	22. 26. 0	1. 2	·0937	0. 45	·01088	1	76 ·0	78 ·0
6. 20	20. 0	10. 55	·0978	1. 30	·00860	3	79 ·0	81 ·0
7. 30	16. 0	18. 18	·0982	13. 40	·01528	9	73 ·0	77 ·0
9. 30	20. 50	23. 35	·0942	23. 55	·01378	21	64 ·0	67 ·0
9. 50	17. 30							
10. 30	20. 0							
11. 15	17. 0							
14. 55	21. 0							
19. 30	16. 0							
23. 58	26. 50							
July 24				July 24				
0. 30	22. 27. 15			0. 25	·01384	1	65 ·0	68 ·0
5. 50	26. 35			6. 0	·00760	3	70 ·0	74 ·0
6. 35	12. 5			15. 22	·01422	9	67 ·0	70 ·0
6. 58	17. 35			23. 55	·01345	21	60 ·0	64 ·0
7. 25	13. 20							
10. 32	19. 20							
12. 10	11. 5							
12. 52	28. 10							
14. 10	16. 0							
20. 0	13. 55							
23. 55	25. 0							
July 25		July 25		July 25				
2. 15	22. 28. 45	2. 5	·0996	2. 30	·01346	1	65 ·0	66 ·0
6. 0	24. 10	4. 38	·1005	10. 30:	·01188	3	64 ·0	67 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 25		July 25		July 25				
h m	° ′ ″	h m		h m			°	°
9. 45	22. 19. 20	9. 27	·1003	17. 30	·01552	9	66 ·0	69 ·0
10. 20	23. 0	23. 50	·0969	23. 55	·01392	21	58 ·0	61 ·0
15 30	18. 10							
23. 58	27. 0							
July 26		July 26		July 26				
0. 30	22. 28. 0	0. 45	·0973	1. 0	·00990	1	61 ·0	64 ·0
6. 30	23. 0	1. 58	·0979	2. 40	·00730	3	65 ·0	68 ·0
8. 45	20. 0	2. 35	·0973	11. 30:	·00781	9	67 ·0	69 ·0
18. 10	17. 0	3. 15	·0982	18. 15	·01382	21	58 ·0	60 ·0
23. 58	25. 50	5. 30	·0975	23. 55	·01240			
		6. 30	·0984					
		7. 58	·0976					
		10. 5	·0984					
		16. 30	·0980					
		22. 0	·0971					
		22. 50	·0975					
July 27		July 27		July 27				
1. 0	22. 28. 0	1. 50	·0972	1. 15	·01200	1	58 ·0	60 ·0
6. 0	24. 0	6. 25	·0988	12. 30	·00742	3	63 ·0	65 ·0
11. 58	21. 58	8. 20	·0990	22. 30	·01282	9	65 ·0	68 ·0
12. 10	25. 30	9. 12	·0975			22	60 ·0	63 ·0
13. 3	18. 50	12. 10	·0984					
13. 56	26. 20	22. 28	·0958					
15. 0	19. 0							
16. 32	18. 20							
17. 28	25. 20							
19. 15	15. 10							
22. 30	19. 0							
July 28		July 28		July 28				
0. 0	22. 28. 0	0. 0	·0964	0. 0	·01248	10	67 ·0	69 ·0
6. 45	22. 30	0. 35	·0971	5. 24	·00812	21	61 ·0	64 ·0
20. 50	16. 50	1. 0	·0960	12. 0:	·00778			
23. 42	29. 0	1. 15	·0967	23. 12	·01245			
		1. 55	·0957					
		3. 6	·0988					
		3. 42	·0972					
		4. 20	·0997					
		5. 5	·0982					
		5. 53	·1003					
		6. 42	·0977					
		16. 36	·0983					
		22. 50	·0938					
		23. 57	·0951					
July 29		July 29		July 29				
1. 10	22. 31. 30	1. 15	·0968	1. 30	·01145	1	64 ·0	67 ·0
7. 30	21. 50	3. 30	·0977	3. 40	·00875	3	68 ·0	70 ·0
8. 45	15. 0	5. 5	·0964	10. 40:	·00866	9	70 ·0	74 ·0
9. 10	22. 0	5. 35	·0991	15. 5	·01400	21	64 ·0	67 ·5

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

July 24. The suspension skein of the Horizontal Force Magnet broke, and a new one was put up.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 29		July 29		July 29				
h m	° ′ ″	h m		h m			°	°
10. 12	22. 15. 10	7. 0	·0974	23. 55	·01368			
12. 40	22. 55	7. 25	·0985					
14. 30	16. 50	8. 0	·0973					
17. 30	21. 50	9. 5	·0990					
19. 30	15. 10	10. 0	·0966					
23. 58	24. 0	10. 17	·0983					
		10. 40	·0971					
		11. 7	·0984					
		12. 18	·0970					
		13. 55	·0989					
		15. 40	·0977					
		17. 20	·0994					
		17. 50	·0981					
		19. 25:	·0991					
		23. 30	·0972					
July 30		July 30		July 30				
0. 15	22. 24. 0	0. 25	·0967	0. 30	·01360	1	62 ·0	64 ·0
6. 35	20. 30	1. 35	·0979	6. 45	·00845	3	65 ·0	68 ·0
15. 30	17. 30	2. 0	·0970	10. 55:	·00826	9	69 ·0	72 ·5
23. 55	27. 40	3. 15	·0986	17. 8	·01428	21	64 ·0	67 ·0
		4. 30	·0976	23. 58	·01340			
		5. 0	·1011					
		5. 57	·0984					
		7. 55	·0994					
		8. 5	·1009					
		8. 52	·0984					
		9. 54	·0981					
		17. 12	·1002					
		23. 32	·0969					
July 31		July 31		July 31				
0. 45	22. 30. 0	0. 30	·0978	0. 25	·01282	1	66 ·0	69 ·0
6. 30	23. 0	1. 0	·0976	3. 32	·00815	3	68 ·0	71 ·0
8. 15	21. 0	6. 20	·0989	13. 0	·00864	9	69 ·0	72 ·0
18. 30	17. 0	8. 42	·0978	21. 28	·01485	21	64 ·0	67 ·0
20. 5	14. 0	20. 20	·0996	23. 40	·01445			
23. 40	22. 55	23. 30	·0977					
Aug. 1		Aug. 1		Aug. 1				
0. 0	22. 23. 0	0. 0	·0978	1. 0	·01444	1	65 ·0	68 ·0
2. 28	30. 10	2. 30	·0998	10. 24:	·01158	3	66 ·0	68 ·0
10. 56	18. 30	2. 55	·0978	18. 15:	·01472	9	68 ·0	72 ·5
13. 30	25. 10	6. 10	·1020	23. 30	·01378	21	63 ·5	67 ·0
15. 45	16. 30	6. 40	·1010					
19. 42	12. 45	7. 42	·1010					
23. 55	25. 25	8. 10	·1025					
		9. 42	·0995					
		10. 7	·1007					
		10. 28	·0992					
		12. 10	·0997					
		12. 48	·0977					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Aug. 2		Aug. 2		Aug. 2				
h m	° ′ ″	h m		h m			°	°
0. 0	22. 25. 50	0. 0	·0994	0. 0	·01372	1	62 ·0	66 ·0
1. 33	29. 45	2. 29	·0981	7. 23	·00840	3	66 ·0	68 ·0
6. 0	23. 40	3. 22	·1001	12. 15:	·00790	9	68 ·0	71 ·0
6. 30	19. 0	3. 50	·0985	23. 30	·01195	21	64 ·0	66 ·0
11. 45	22. 50	5. 55	·1017					
15. 25	18. 15	6. 18	·1006					
16. 40	29. 0	6. 35	·1018					
18. 43	18. 10	16. 35	·0996					
20. 30	27. 50	17. 5	·1004					
22. 30	19. 45	19. 7	·1004					
23. 58	22. 50	20. 38	·0968					
		23. 12	·0984					
Aug. 3		Aug. 3		Aug. 3				
1. 0	22. 25. 30	0. 43	·0979	1. 0	·01145	1	65 ·0	68 ·0
2. 15	29. 50	5. 0	·0988	5. 0	·00852	3	69 ·0	72 ·0
7. 10	17. 0	6. 18	·0990	8. 8:	·01018	9	72 ·0	77 ·0
9. 57	19. 50	6. 52	·0968	11. 0:	·00860	23	66 ·0	69 ·0
10. 28	25. 0	7. 12	·0990	17. 50	·01553			
11. 15	17. 20	10. 2	·1001	23. 40	·01485			
14. 20	21. 40	17. 18	·0994					
20. 0	14. 5	23. 32	·0946					
23. 21	23. 10							
Aug. 4		Aug. 4		Aug. 4				
0. 30	22. 30. 0	1. 0	·0939	0. 0	·01468	11	74 ·0	77 ·0
1. 30	32. 0	18. 7:	·0988	4. 0	·00915	21	66 ·0	71 ·0
6. 30	19. 0	23. 45	·0954	8. 10:	·01050			
11. 10	14. 55 ***			12. 15:	·00948			
15. 18	18. 10 ***			15. 35	·01558			
19. 40	14. 10 ***			23. 30	·01458			
23. 58	28. 30							
Aug. 5		Aug. 5		Aug. 5				
1. 30	22. 32. 55	1. 45	·0967	1. 30	·01075	1	70 ·0	75 ·0
5. 30	22. 0 ***	3. 50	·0944	2. 10	·00910	3	76 ·0	78 ·0
12. 0:	19. 0 ***	12. 10	·0973	9. 35:	·00993	9	74 ·0	75 ·0
13. 0	23. 0 ***	13. 20	·0987	13. 37	·01600	21	64 ·0	68 ·0
14. 15	17. 0 ***	23. 35	·0958	23. 58	·01484			

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Aug. 5								
h m	° ′ ″	h m		h m			°	°
16. 20	22. 20. :0							
	***							
18. 45:	16. 20							
23. 50	30. 0							
Aug. 6		Aug. 6		Aug. 6				
0. 0	22. 30. 20	1. 5	·0961	0. 15	·01466	1	66 ·0	69 ·0
1. 30	34. 0	6. 6	·0956	4. 35	·00822	3	70 ·0	74 ·0
5. 30	22. 50	15. 32:	·0985	9. 55:	·00848	9	68 ·0	74 ·0
	***	23. 0	·0958	14. 8	·01532	21	59 ·5	64 ·5
12. 10:	20. 50			23. 58	·01382			
23. 58	31. 45							
Aug. 7		Aug. 7		Aug. 7				
0. 10	22. 32. 20	0. 5	·0963	0. 30	·01342	1	65 ·0	67 ·5
4. 30	24. 0	6. 0	·0960	3. 15	·00780	3	69 ·0	71 ·5
	***	10. 25	·0977	9. 45:	·00810	9	68 ·0	72 ·0
12. 15:	21. 40		(†)	14. 48	·01548	21	65 ·0	68 ·0
20. 0	17. 5	21. 40	·0960*	23. 58	·01385			
23. 58	30. 10		(†)					
Aug. 8		Aug. 8		Aug. 8				
1. 2	22. 33. 25	0. 20	·0992	0. 15	·01334	1	68 ·0	70 ·0
5. 30	24. 0		***	6. 55:	·00802	3	70 ·0	73 ·0
11. 40	20. 15	0. 46	·0987	16. 55	·00554	9	68 ·5	73 ·0
	***		***	23. 55	·01434	21	60 ·0	64 ·0
12. 36	23. 0	3. 22	·1007					
	***		***					
13. 35	19. 0	7. 55	·0997					
	(†)		***					
22. 55	25. 15	10. 30	·1004					
23. 58	28. 0		***					
		12. 15	·0996					
			***					
		12. 58	·1003					
			***					
		23. 0	·0973					
Aug. 9		Aug. 9		Aug. 9				
0. 30	22. 30. 10	0. 20	·0975	0. 30	·01390	1	64 ·0	67 ·0
1. 20	33. 50	1. 13	·0987	5. 5	·00730	3	68 ·0	70 ·0
6. 0	22. 40	1. 50	·0977	8. 5:	·00835	9	67 ·0	72 ·0
8. 15	19. 0	2. 28	·0986	10. 50:	·00758	21	60 ·0	64 ·0
13. 0	22. 0	3. 0	·0977	22. 30:	·01482			
13. 40	15. 30	4. 0	·0983	23. 58	·01410			
14. 20	18. 40	4. 30	·0972					
15. 27	10. 50	6. 35	·0985					
16. 58	19. 20	9. 22	·0972					
18. 28	16. 0	13. 50	·0998					
19. 30	21. 0	15. 0	·0973					
20. 0	15. 0	16. 50	·0996					
23. 25	32. 10	17. 50	·0980					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	Aug. 9 h m		h m			°	°
		18. 12	·0988					
		20. 30	·0955					
		22. 0	·0950					
		22. 14	·0967					
		23. 15	·0927					
		23. 55	·0943					
Aug. 10		Aug. 10		Aug. 10				
0. 40	22. 30. 0	0. 35	·0953	0. 30	·01358	1	65 ·0	68 ·0
1. 45	33. 20	1. 0	·0966	4. 15	·00808	3	68 ·0	70 ·0
6. 15	20. 50	1. 32	·0941	7. 30:	·00924	9	70 ·0	74 ·0
9. 55	18. 0	4. 32	·0947	11. 30:	·00828	23	68 ·0	71 ·0
19. 54	15. 0	5. 15	·0968	23. 25	·01272			
20. 17	20. 0	5. 38	·0944					
23. 28	28. 0	7. 25	·0964					
		14. 15	·0972					
		19. 15	·0965					
		23. 10	·0922					
Aug. 11		Aug. 11		Aug. 11				
0. 0	22. 28. 45	0. 20	·0924	0. 0	·01248	11	72 ·0	75 ·0
5. 0	23. 10	1. 18	·0942	3. 23	·00898	21	63 ·0	66 ·0
7. 30	19. 0	2. 0	·0931	10. 15:	·00930			
9. 52	22. 10	3. 42	·0957	15. 55	·00622			
11. 30	20. 0	5. 28	·0944	23. 25	·01540			
15. 2	18. 0	16. 30	·0968					
19. 10	26. 0	23. 38	·0931					
20. 50	17. 30							
23. 55	27. 30							
Aug. 12		Aug. 12		Aug. 12				
0. 0	22. 27. 30	0. 0	·0928	0. 45	·01582	1	65 ·0	69 ·0
1. 30	31. 5	8. 20	·0955	14. 30:	·01465	3	65 ·0	70 ·0
8. 24	20. 45	8. 45	·0940	18. 15	·01512	9	65 ·0	68 ·0
9. 5	9. 0	9. 15	·0954	23. 55	·01410	21	59 ·0	62 ·0
10. 34	17. 30	10. 46	·0926					
11. 32	14. 15	12. 28	·0940					
12. 10	20. 50	12. 48	·0933					
13. 15	15. 10	18. 17	·0957					
14. 5	23. 0	19. 0	·0936					
17. 50	16. 20	21. 35	·0922					
23. 55	28. 50	22. 30	·0929					
		23. 35	·0921					
Aug. 13		Aug. 13		Aug. 13				
0. 40	22. 31. 10	1. 10	·1004	0. 30	·01350	1	60 ·0	63 ·0
6. 0	19. 50		***	3. 48	·00770	3	68 ·0	71 ·0
20. 0	17. 0	3. 40	·0991	10. 30:	·00825	9	67 ·0	70 ·0
23. 58	27. 20		***	18. 15:	·01622	21	60 ·0	63 ·0
		4. 0	·0998	23. 58	·01560			
			***					
		5. 30	·0978					
			***					

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	Aug. 13 h m		h m			°	°
		10. 55	·0990 ***					
		17. 0	·1004 ***					
		23. 58	·0988					
Aug. 14		Aug. 14		Aug. 14				
0. 10	22. 27. 30	0. 32	·0983 ***	0. 15	·01560	1	64 ·0	68 ·0
6. 0	21. 30			7. 18	·00840	3	67 ·0	70 ·0
14. 0:	19. 50	18. 10	·1004 ***	10. 25:	·00815	9	69 ·0	72 ·0
19. 10	18. 0			19. 58	·01598	21	62 ·0	65 ·0
23. 15	27. 10	23. 12	·0987	23. 15	·01560			
Aug. 15		Aug. 15		Aug. 15				
0. 0	22. 28. 40	0. 30	·0988	0. 0	·01562	1	65 ·0	68 ·0
1. 30	32. 0	4. 20	·0983	10. 10:	·00798	3	68 ·0	70 ·0
6. 0	23. 0	16. 32	·1002	18. 20	·01560	9	67 ·5	72 ·5
11. 3	15. 20	19. 20	·1002	20. 52	·01512	21	62 ·0	66 ·0
12. 15	19. 25	23. 55	·0963	22. 28	·01548			
13. 15	17. 20							
14. 10	20. 10							
15. 20	17. 0							
23. 55	26. 30							
Aug. 16		Aug. 16		Aug. 16				
0. 5	22. 26. 40	0. 0	·0963	0. 0	·01262	1	65 ·0	68 ·0
8. 0	20. 0	3. 50	·0944	2. 45	·00828	3	73 ·0	75 ·0
9. 37	10. 50	6. 45	·0969	8. 10:	·00965	9	72 ·0	76 ·0
15. 0	18. 20	7. 20	·0959	10. 45:	·00882	21	65 ·0	68 ·0
15. 30	25. 50	9. 55	·0946	18. 32	·01626			
16. 3	16. 10	16. 51	·0977	23. 58	·01602			
19. 30	17. 5	17. 35	·0959					
23. 50	26. 55	18. 35	·0980					
		21. 40	·0956					
		23. 30	·0971					
Aug. 17		Aug. 17		Aug. 17				
0. 0	22. 27. 15	0. 0	·0970	0. 0	·01604	1	68 ·0	71 ·0
7. 40	22. 0	1. 32	·0961	6. 10:	·00865	3	70 ·0	74 ·0
8. 28	14. 0	2. 20	·0972	8. 30:	·00972	9	70 ·0	74 ·0
9. 32	22. 20	3. 9	·0954	11. 0:	·00878	22	68 ·0	72 ·0
12. 15	19. 0	3. 50	·0971	18. 58	·01630			
12. 30	22. 10	6. 34	·0971	23. 30	·01605			
13. 10	11. 0	6. 50	·0985					
14. 2	17. 55	7. 58	·0967					
15. 10	12. 30	8. 41	·0977					
16. 30	23. 55	12. 12	·0970					
18. 58	12. 50	12. 32	·0987					
23. 20	25. 0	13. 30	·0954					
		14. 0	·0970					
		15. 48	·0954					
		17. 26	·0974					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	Aug. 17 h m		h m			°	°
		23. 20	·0955					
Aug. 18		Aug. 18		Aug. 18				
0. 0	22. 27. 0	0. 0	·0954	0. 0	·01608	9	72 ·0	76 ·5
2. 45	30. 5	3. 30	·0938	5. 24	·00932	21	62 ·0	66 ·0
7. 12	13. 30	3. 55	·0958	10. 30:	·00885			
13. 30	22. 55	4. 50	·0941	18. 8	·01626			
14. 45	10. 10	7. 20	·0967	23. 30	·01594			
23. 58	24. 55	8. 35	·0957					
		13. 15	·0963					
		14. 12	·0938					
		14. 50	·0976					
		18. 15	·0942					
		19. 20	·0975					
		23. 50	·0946					
Aug. 19	(†)	Aug. 19		Aug. 19				
1. 40	22. 29. 28*	0. 40	·0952	1. 0	·01552	1	65 ·0	68 ·0
	(†)	1. 12	·0928	7. 20:	·00959	3	68 ·0	70 ·0
3. 40	27. 50*	1. 55	·0956	10. 0	·00875	9	67 ·0	72 ·0
7. 20	17. 50	2. 30	·0948	15. 8	·01430	21	58 ·0	61 ·0
9. 30	18. 20	3. 5	·0960	23. 58:	·01340			
9. 52	8. 0	7. 45	·0965					
13. 50	22. 0	8. 24	·0949					
20. 48	12. 58	9. 5	·0978					
23. 58	24. 5	10. 37	·0951					
		12. 15	·0981					
		15. 0	·0958					
		17. 7	·0975					
		21. 0	·0949					
		23. 55	·0956					
Aug. 20		Aug. 20		Aug. 20				
1. 15	22. 30. 10	1. 0	·0956	0. 30	·01490	1	60 ·0	64 ·0
5. 0	23. 0	3. 7	·0971	6. 42:	·00672	3	65 ·0	68 ·0
13. 5:	17. 45	7. 25	·0953	9. 45:	·00693	9	62 ·0	65 ·0
16. 50	21. 20	19. 20	·0964	18. 55	·01516	21	59 ·0	63 ·5
19. 58	17. 0	23. 0	·0946	23. 40	·01430			
23. 58	26. 30							
Aug. 21		Aug. 21		Aug. 21				
0. 10	22. 26. 55	0. 32	·0957	0. 30	·01420	1	60 ·0	63 ·0
8. 30:	17. 25	9. 36	·0974	6. 30:	·01305	3	61 ·0	64 ·0
13. 40	19. 25	21. 0	·0962	11. 50	·01488	9	59 ·0	66 ·0
14. 5	22. 55	23. 40	·0962	23. 45	·01322	21	53 ·0	55 ·0
19. 0:	16. 30							
23. 50	30. 30							
Aug. 22		Aug. 22		Aug. 22				
0. 0	22. 30. 10	0. 0	·0963	0. 0	·01260	1	60 ·0	64 ·0
5. 0	22. 0		***	2. 45	·00642	3	65 ·0	68 ·0
11. 20	18. 30 (†)	2. 55	·0978	10. 0:	·00628	9	64 ·0	66 ·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Aug. 22		Aug. 22		Aug. 22				
h m	° ′ ″	h m		h m			°	°
22. 22	22. 22. 30	4. 10	·0964	12. 20	·00776	21	55 ·0	58 ·0
23. 55	29. 10	11. 0	·0959		(†)			
		12. 20	·0968	22. 25	·01232			
			(†)	23. 30	·01282			
		22. 57	·0964					
Aug. 23		Aug. 23		Aug. 23				
0. 5	22. 30. 0	1. 35	·0970	0. 15	·01216	1	63 ·0	66 ·0
2. 28	33. 40	2. 0	·0952	2. 17	·00728	3	65 ·0	68 ·0
6. 50	17. 30	2. 30	·0985	8. 13:	·00960	9	65 ·5	73 ·0
8. 6	12. 30	2. 48	·0957	10. 35	·00805	21	59 ·0	66 ·0
10. 24	22. 0	5. 4	·0983	15. 55	·01550			
11. 20	14. 30		***	22. 40	·01564			
13. 0	22. 25	5. 32	·0965					
14. 40	17. 20		***					
15. 42	22. 0	6. 0	·0977					
17. 10	15. 0		***					
23. 55	29. 0	8. 0	·0957					
		9. 34	·0968					
		10. 50	·0955					
		11. 35	·0965					
		16. 5	·0971					
		18. 20	·0953					
		18. 52	·0963					
		19. 10	·0952					
		22. 7	·0950					
		23. 55	·0965					
Aug. 24		Aug. 24		Aug. 24				
0. 0	22. 29. 10	0. 30	·0964	1. 10	·01478	1	60 ·0	63 ·0
4. 30	22. 0	1. 54	·0953	5. 2	·00800	3	65 ·0	68 ·0
7. 57	16. 30	3. 0	·0970	8. 0:	·00942	9	65 ·0	69 ·0
22. 58	24. 50	6. 53	·0957	10. 10:	·00830	22	60 ·0	62 ·5
		7. 25	·0965	13. 58	·01508			
		22. 58	·0947	23. 50	·01445			
Aug. 25		Aug. 25		Aug. 25				
0. 5	22. 30. 0	0. 0	·0952	0. 0	·01415	8	65 ·0	68 ·0
5. 0	23. 0	11. 53	·0957	6. 55	·00606	21	65 ·0	67 ·5
9. 0	20. 10	21. 45	·0932	22. 30:	·00662			
20. 0	17. 0	23. 45	·0942					
23. 58	30. 0							
Aug. 26		Aug. 26		Aug. 26				
0. 15	22. 31. 30	0. 20	·0947	1. 0	·00585	1	66 ·0	68 ·0
6. 0	22. 0	0. 58	·0941	14. 38	·01508	3	68 ·0	70 ·0
20. 20	16. 30	1. 32	·0954	23. 58	·01318	9	65 ·0	68 ·0
23. 58	31. 15	3. 32	·0944			21	57 ·5	61 ·0
		12. 35	·0957					
		18. 30	·0956					
		18. 57	·0968					
		19. 20	·0952					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
		Aug. 26						
h m	° ′ ″	h m		h m			°	°
		22. 50	·0939					
Aug. 27		Aug. 27		Aug. 27				
0. 30	22. 32. 35	0. 30	·0953	0. 30	·01252	1	60 ·0	64 ·0
7. 10	21. 55		***	4. 0	·00610	3	65 ·0	68 ·0
7. 50	16. 55	1. 54	·0964	23. 0	·01504	9	67 ·5	70 ·5
15. 0	21. 0		***	23. 58	·01512	21	60 ·0	63 ·0
20. 30	14. 10	7. 20	·0951					
23. 55	27. 0	10. 5	·0957					
		13. 25	·0952					
		18. 40	·0962					
		23. 30	·0946					
Aug. 28		Aug. 28		Aug. 28				
0. 30	22. 28. 55	0. 30	·0949	0. 30	·01508	1	63 ·0	65 ·0
2. 20	30. 15	11. 0	·0967	9. 30:	·00926	3	65 ·0	68 ·0
7. 0	22. 30	12. 30	·0955	15. 48	·01500	9	65 ·0	68 ·0
15. 0	18. 55	13. 20	·0964	23. 58	·01392	21	59 ·5	61 ·0
16. 50	21. 5	18. 30	·0960					
20. 35	14. 50	19. 0	·0972					
23. 58	25. 20	19. 30	·0958					
		23. 12	·0943					
Aug. 29		Aug. 29		Aug. 29				
0. 15	22. 26. 25	0. 30	·0945	0. 40	·01374	1	58 ·0	60 ·0
10. 0	21. 0	5. 13	·0969	10. 18	·00602	3	63 ·0	66 ·0
10. 45	14. 50	6. 20	·0962	18. 20	·01372	9	63 ·0	64 ·5
12. 28	20. 10	9. 22	·0973	23. 58	·01306	21	54 ·0	58 ·0
13. 48	16. 45	10. 40	·0966					
14. 40	23. 25	11. 15	·0976					
20. 30	14. 20	12. 14	·0965					
23. 55	28. 5	13. 40	·0978					
		14. 5	·0961					
		14. 55	·0976					
		15. 41	·0964					
		17. 55	·0975					
		18. 22	·0992					
		19. 36	·0956					
		23. 30	·0957					
Aug. 30		Aug. 30		Aug. 30				
0. 0	22. 28. 50	0. 0	·0957	0. 0	·01300	1	58 ·0	60 ·0
5. 0	24. 50	13. 40	·0969	3. 43	·00550	3	65 ·0	68 ·0
13. 0	20. 45	18. 30	·0965	17. 32	·01405	9	64 ·0	66 ·5
13. 12	26. 0	19. 0	·0977	23. 30	·01368	21	53 ·0	56 ·0
14. 5	20. 50	19. 30	·0962					
15. 58	24. 0	22. 52	·0954					
20. 10	14. 55							
23. 50	25. 30							
Aug. 31		Aug. 31		Aug. 31				
0. 2	22. 26. 0	0. 30	·0955	0. 30	·01288	1	60 ·0	63 ·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Aug. 31	° ′ ″	Aug. 31		Aug. 31			°	°
h m		h m		h m				
6. 0	22. 20. 30	9. 20	·0976	4. 45	·00518	3	60·0	64·0
13. 30:	19. 0	23. 15	·0937	11. 25:	·00525	9	63·0	66·0
20. 0:	14. 55			23. 20	·01148	22	58·5	62·0
23. 20	24. 50							
Sep. 1		Sep. 1		Sep. 1				
0. 0	22. 26. 10	0. 15	·0943	0. 0	·01166	9	63·5	66·5
1. 0	29. 0	3. 10	·0975	8. 30	·00622	21	62·0	64·5
10. 0	19. 30	8. 50	·0976	11. 30:	·00570			
16. 0	16. 0	15. 45	·0980	22. 30	·01103			
19. 45	12. 35	21. 0	·0942	23. 25	·01080			
23. 15	25. 50	22. 30	·0957					
		23. 15	·0950					
Sep. 2		Sep. 2		Sep. 2				
0. 28	22. 31. 0	1. 5	·0945	0. 0	·01050	1	65·0	68·0
1. 2	28. 10	2. 12	·0969	3. 2	·00670	3	67·0	69·0
2. 27	30. 55	3. 2	·0951	18. 50	·01528	9	69·5	72·5
6. 40	20. 50	4. 0	·0958	23. 10	·01076	21	54·0	60·0
7. 20	16. 25	4. 55	·0940					
7. 55	18. 50	7. 32	·0965					
8. 55	16. 0	18. 55	·0967					
11. 30	20. 30	23. 35	·0944					
16. 0	15. 30							
18. 35	13. 55							
23. 58	27. 0							
Sep. 3		Sep. 3		Sep. 3				
0. 30	22. 28. 0	0. 30	·0957	1. 0:	·01494	1	62·0	65·0
2. 25	35. 40	2. 0	·0960	13. 30:	·00990	3	64·0	66·0
2. 45	30. 0	2. 28	·0986	23. 48	·01470	9	64·0	68·0
5. 10	22. 30	2. 50	·0946			21	61·0	65·0
5. 20	25. 10	4. 8	·0976					
9. 20	20. 0	4. 52	·0946					
10. 30	15. 0	5. 23	·1002					
11. 0	18. 20	6. 7	·0977					
11. 15	16. 0	7. 40	·0990					
12. 10	20. 0	9. 20	·0980					
12. 30	18. 35	16. 7	·0991					
12. 55	27. 0	17. 30	·0962					
14. 20	20. 45	18. 15	·0987					
14. 48	25. 30	23. 30	·0950					
16. 8	19. 10							
17. 40	32. 0							
20 0	17. 50							
23. 58	39. 50							
Sep. 4		Sep. 4		Sep. 4				
0. 12	22. 41. 25	0. 20	·0960	0. 15	·01454	1	64·0	66·0
1. 54	35. 40	0. 38	·0947	4. 50	·00700	3	66·0	69·0
2. 59	38. 0	1. 7	·0958	8. 40	·00666	9	65·0	67·0

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 4	° ′ ″	Sep. 4		Sep. 4			°	°
h m		h m		h m				
7. 35	22. 26. 55	1. 48	·0950	14. 40	·01410	21	55·0	59·0
9. 0	22. 20	2. 59	·0967	22. 30:	·01313			
11. 58	28. 0	4. 23	·0935	23. 40	·01360			
12. 20	32. 30	6. 28	·0957					
12. 45	29. 10	7. 0	·0945					
13. 5	33. 0	8. 0	·0960					
15. 58	24. 0	8. 50	·0945					
16. 55	29. 55	9. 33	·0968					
18. 57	21. 50	16. 32	·0972					
19. 55	26. 0	16. 52	·0982					
20. 27	22. 50	17. 45	·0970					
23. 58	37. 30	19. 5	·0985					
		22. 43	·0936					
Sep. 5		Sep. 5		Sep. 5				
0. 28	22. 40. 5	2. 0	·0957	1. 58	·01205	1	59·9	60·5
0. 58	38. 20	4. 9	·0946	5. 15	·00675	3	60·5	63·0
1. 28	41. 10	5. 10	·0972	10. 38:	·00550	9	63·0	66·0
1. 58	37. 50	6. 5	·0943	20. 33	·01415	21	55·0	58·0
2. 43	40. 35	6. 20	·0984	23. 30	·01405			
4. 25	33. 0	7. 5	·0958					
5. 10	37. 10	9. 47	·0967					
6. 3	24. 30	10. 0	·0988					
7. 32	30. 0	10. 42	·0965					
9. 58	17. 50	22. 35	·0956					
10. 32	29. 0							
20. 22	19. 10							
23. 42	33. 30							
Sep. 6		Sep. 6		Sep. 6				
0. 30	22. 32. 50	0. 0	·0965	0. 0	·01392	1	58·0	60·0
2. 22	36. 55	1. 50	·0979	8. 43	·00570	3	63·0	66·0
2. 42	33. 50	2. 39	·0960	15. 58	·01402	9	62·5	65·5
3. 25	34. 20	3. 0	·0973	21. 54:	·01300	21	53·0	56·0
4. 28	22. 0	3. 36	·0952	23. 20	·01338			
5. 38	27. 0	4. 4	·0983					
6. 48	26. 15	4. 18	·0960					
6. 56	19. 0	4. 35	·0978					
7. 3	26. 35	5. 15	·0962					
7. 32	12. 20	5. 30	·0972					
8. 5	28. 20	6. 32	·0963					
8. 29	22. 55	6. 55	·1006					
8. 38	28. 50	7. 20	·0944					
9. 12	17. 0	7. 35	·0980					
13. 0	27. 30	7. 50	·0955					
20. 5	28. 20	8. 17	·0960					
23. 58	39. 0	8. 29	·1005					
		8. 55	·0949					
		9. 45	·0973					
		10. 15	·0958					
		17. 15	·0983					
		23. 30	·0940					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 7		Sep. 7		Sep. 7				
h m	° ′ ″	h m		h m				
0. 2	22. 41. 10	0. 20	·0928	0. 30	·01190	1	57 ·0	60 ·0
6. 10	28. 30	0. 55	·0956	3. 10	·00624	3	65 ·0	68 ·0
6. 28	24. 30	1. 58	·0944	6. 50:	·00742	9	65 ·0	68 ·0
7. 35	27. 50	3. 32	·0958	10. 25	·00640	22	55 ·0	58 ·0
8. 42	23. 20	4. 20	·0942	16. 42	·01362			
10. 5	27. 0	6. 55	·0971	23. 10:	·01360			
11. 50	25. 0	8. 10	·0956					
12. 5	30. 25	12. 5	·0987					
14. 0	17. 55	12. 45	·0970					
14. 58	28. 0	13. 30	·0980					
15. 56	27. 0	14. 30	·0961					
18. 30	24. 0	15. 55	·0994					
18. 45	18. 0	20. 0	·0970					
19. 48	27. 10	20. 30	·0976					
23. 4	33. 0	23. 12	·0942					
Sep. 8		Sep. 8		Sep. 8				
0. 0	22. 35. 0	0. 0	·0952	0. 0	·01398	11	58 ·0	60 ·0
1. 3	38. 50	3. 30	·0990	10. 30	·00567	21	56 ·0	58 ·0
4. 20	30. 25	4. 58	·0966	23. 8	·01382			
5. 15	24. 0	6. 10	·0983					
7. 22	27. 0	7. 0	·0972					
9. 29	20. 50	13. 25	·0983					
10. 10	26. 5	22. 50	·0956					
20. 28	24. 50							
23. 2	32. 0							
Sep. 9		Sep. 9		Sep. 9				
0. 0	22. 34. 45	0. 0	·0948	0. 0	·01377	1	59 ·0	60 ·0
5. 0	27. 20	7. 52	·0982	9. 45:	·00842	3	60 ·0	63 ·0
9. 40	23. 30	17. 45	·0984	19. 55	·01440	9	61 ·0	63 ·5
21. 0	20. 0	23. 10	·0948	22. 30:	·01410	21	56 ·0	58 ·0
23. 58	35. 0							
Sep. 10		Sep. 10		Sep. 10				
0. 30	22. 36. 0	0. 30	·0954	0. 30	·01358	1	58 ·0	60 ·0
3. 30	37. 55	1. 42	·0968	6. 22	·00682	3	63 ·0	65 ·0
4. 12	26. 40	2. 25	·0953	9. 40:	·00664	9	60 ·0	64 ·0
4. 42	33. 0	4. 25	·0990	19. 8	·01470	21	57 ·0	60 ·0
5. 10	30. 0	4. 55	·0972	23. 58	·01410			
6. 30	31. 0	5. 20	·0984					
7. 25	24. 5	5. 57	·0965					
7. 32	25. 55	10. 30	·0958					
8. 0	21. 10	11. 12	·0977					
8. 40	24. 0	11. 38	·0956					
11. 2	17. 35	14. 14	·0978					
13. 30	23. 5	15. 25	·0966					
14. 35	17. 15	18. 52	·0981					
15. 32	27. 0	23. 30	·0956					
20. 30	20. 20							
23. 56	30. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 11		Sep. 11		Sep. 11				
h m	° ′ ″	h m		h m				
0. 30	22. 32. 15	0. 40	·0959	0. 50	·01376	1	57 ·0	60 ·0
6. 0	25. 30	5. 30	·0967	6. 20	·00600	3	60 ·0	64 ·0
14. 0	20. 30	18. 55	·0988	10. 10:	·00570	9	62 ·0	64 ·0
20. 12	23. 5	23. 35	·0947	18. 33	·01448	21	55 ·0	58 ·0
23. 30	33. 35			23. 55	·01230			
Sep. 12		Sep. 12		Sep. 12				
0. 0	22. 33. 10	1. 0	·0957	0. 0	·01200	1	60 ·0	64 ·0
2. 0	36. 0		***	2. 40	·00640	3	63 ·0	68 ·0
5. 0	28. 0	3. 58	·0970	10. 5	·00672	9	66 ·0	67 ·0
9. 24	26. 0		***	15. 38	·01477	21	50 ·0	53 ·0
10. 2	23. 5	4. 35	·0962	23. 42	·01380			
12. 5	24. 55		***					
12. 28	27. 50	12. 0	·0987					
14. 55	23. 50	15. 32	·0977					
15. 48	28. 25	18. 42	·0997					
20. 25	20. 40	23. 20	·0966					
23. 58	33. 20							
Sep. 13		Sep. 13		Sep. 13				
0. 30	22. 34. 35	0. 45	·0972	0. 30	·01310	1	58 ·0	61 ·0
9. 0	28. 30	6. 2	·0991	3. 42	·00638	3	65 ·0	68 ·0
12. 23	20. 35	6. 10	·0982	10. 15	·00630	9	63 ·0	66 ·0
13. 56	23. 40	6. 28	·0993	18. 14	·01468	21	55 ·0	58 ·0
14. 55	19. 30	7. 18	·0982	23. 30	·01383			
20. 28	19. 45	7. 22	·1004					
23. 18	30. 0	7. 28	·0981					
		7. 47	·0997					
		11. 37	·0973					
		12. 0	·0981					
		16. 0	·0990					
		22. 0	·0980					
		22. 32	·0961					
		23. 18	·0976					
Sep. 14		Sep. 14		Sep. 14				
0. 30	22. 36. 55	0. 50	·0949	1. 0	·01396	1	56 ·0	59 ·0
6. 35	29. 0		***	5. 30	·00640	3	63 ·0	66 ·0
7. 38	23. 50	2. 26	·0973	10. 30:	·00600	9	64 ·0	66 ·0
8. 16	15. 0		***	18. 33	·01445	22	55 ·0	58 ·0
8. 55	19. 20	5. 28	·0964	23. 20	·01382			
9. 10	16. 40		***					
11. 25	27. 5	6. 0	·0981					
14. 32	20. 50		***					
16. 35	25. 10	6. 54	·0967					
23. 22	31. 40		***					
		7. 45	·0987					
			***					
		8. 0	·0971					
		8. 40	·0993					
		9. 27	·0967					
		11. 32	·0984					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	Sep. 14 h m		h m			°	°
		12. 22	·0965					
		13. 30	·0990					
		14. 45	·0974					
		15. 20	·0981 ***					
		18. 30	·0981 ***					
		23. 17	·0962					
Sep. 15		Sep. 15		Sep. 15				
0. 8	22. 33. 5	0. 35	·0956 ***	0. 55	·01415	11	63 ·0	66 ·0
3. 48	30. 30			7. 15	·00598	21	58 ·0	60 ·0
4. 40	25. 35	1. 4	·0969 ***	12. 25:	·00540			
6. 10	27. 25			23. 10	·01070			
8. 0	23. 0	3. 30	·0974					
8. 35	9. 58	7. 20	·0984					
9. 30	21. 0	7. 50	·0973					
10. 38	25. 0	8. 5	·0980					
11. 0	19. 20	8. 28	·0966					
11. 50	30. 20	8. 55	·0994					
14. 30	16. 50	9. 35	·0965					
15. 15	24. 0	9. 55	·0972					
16. 30	21. 45	10. 12	·0963					
17. 32	24. 55	11. 50	·0988					
19. 42	21. 40	12. 40	·0970					
23. 55	30. 45	13. 35	·0984					
		14. 52	·0961					
		21. 51	·0958					
		23. 30	·0954					
Sep. 16		Sep. 16		Sep. 16				
0. 40	22. 31. 20	0. 0	·0965 ***	1. 0	·01052	1	60 ·0	63 ·0
1. 35	34. 35			6. 40	·00580	3	65 ·0	68 ·0
6. 35	24. 0	3. 20	·0957	10. 15:	·00568	9	63 ·0	65 ·5
10. 10	21. 0	10. 10	·0990	23. 0	·01298	21	58 ·0	61 ·0
13. 24	26. 55	21. 50	·0964	23. 58	·01280			
20. 8	19. 20							
23. 58	31. 40							
Sep. 17		Sep. 17		Sep. 17				
1. 0	22. 33. 10	1. 0	·0965	1. 0	·01227	1	60 ·0	63 ·0
6. 0	25. 0	11. 55	·0983	6. 40	·00595	3	63 ·0	66 ·0
20. 5:	19. 58	23. 30	·0965	18. 58	·01450	9	63 ·0	66 ·0
23. 58	32. 20			23. 58	·01395	21	55 ·0	58 ·0
Sep. 18		Sep. 18		Sep. 18				
1. 0	22. 34. 45	1. 0	·0979 ***	0. 30	·01368	1	60 ·0	63 ·0
7. 20	28. 30			5. 12	·00610	3	62 ·0	64 ·0
11. 45	21. 45	5. 10	·0970 ***	17. 35	·01445	9	64 ·0	67 ·0
15. 2	17. 0			22. 30	·01406	21	55 ·0	58 ·0
20. 15:	21. 0	9. 57	·0988					
23. 58	34. 5	11. 8	·0977					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	Sep. 18 h m		h m			°	°
		12. 30	·1011					
		15. 10	·0981 ***					
		22. 10	·0966 ***					
		23. 55	·0970					
		Sep. 19		Sep. 19				
Sep. 19		1. 5	·0976 ***	0. 30	·01246	1	60 ·0	62 ·0
0. 25	22. 35. 25	5. 45	·0968 ***	4. 45	·00675	3	65 ·0	67 ·0
11. 5	26. 30	15. 35	·0988 ***	10. 0:	·00642	9	63 ·0	65 ·0
12. 30	23. 25	22. 50	·0965 ***	23. 58	·01192	21	60 ·0	62 ·0
13. 45	26. 50	23. 58	·0976					
17. 33	22. 30							
18. 45	24. 50							
21. 2	20. 30							
23. 57	31. 0							
Sep. 20		Sep. 20		Sep. 20				
1. 0	22. 30. 25	0. 30	·0973 ***	0. 30	·01192	1	60 ·0	63 ·0
6. 0	24. 0	11. 50	·0990 ***	7. 27	·00718	3	63 ·0	65 ·0
20. 30:	19. 0	23. 50	·0961	10. 40:	·00670	9	65 ·0	67 ·0
23. 58	29. 0			23. 0	·01472	21	60 ·0	64 ·0
Sep. 21		Sep. 21		Sep. 21				
1. 0	22. 30. 25	1. 0	·0965	0. 50	·01444	1	63 ·0	66 ·0
6. 30	26. 0	18. 0	·0984	9. 35:	·00690	3	65 ·0	68 ·0
11. 32	22. 55	23. 6	·0966	20. 12	·00515	9	63 ·0	66 ·0
12. 45	19. 20			23. 25	·01460	22	59 ·0	62 ·0
14. 40	23. 0							
20. 52	18. 20							
23. 25	27. 10							
Sep. 22		Sep. 22		Sep. 22				
0. 0	22. 29. 45	1. 0	·0970	0. 0	·01448	11	61 ·0	64 ·0
1. 10	32. 35	7. 20	·0970	8. 10	·00695	21	59 ·0	60 ·0
9. 0	23. 55	9. 18	·0974	10. 30:	·00662			
9. 40	18. 45	16. 40	·0992	23. 30	·01466			
14. 30:	24. 0	23. 0	·0964					
18. 57	17. 45							
23. 58	27. 0							
Sep. 23		Sep. 23		Sep. 23				
1. 0	22. 30. 0	1. 0	·0970	1. 0	·01440	1	60 ·0	60 ·0
5. 0	26. 0	10. 43	·0983	9. 20:	·00770	3	65 ·0	68 ·0
11. 0	23. 25	11. 6	·0994	20. 30:	·01425	9	63 ·0	65 ·0
13. 45	15. 45	15. 15	·0978	23. 58	·01360	21	58 ·0	60 ·0
16. 57	20. 30	23. 40	·0954					
19. 40	16. 30							
23. 58	35. 0							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Gottingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 24		Sep. 24		Sep. 24				
h m	° ′ ″	h m		h m			°	°
0. 10	22. 36. 0	1. 0	·0958	0. 30	01348	1	60 ·0	63 ·0
1. 30	39. 30	5. 22	·0988	7. 0	·00740	3	63 ·0	66 ·0
4. 42	30. 0	7. 5	·0965	10. 0:	·00685	9	60 ·0	63 ·0
5. 28	20. 35	8. 45	·0985	20. 20:	·01475	21	58 ·0	60 ·0
6. 10	25. 20	9. 20	·0976	23. 58	·01342			
7. 20	18. 45	9. 50	·1003					
8. 28	23. 0	10. 8	·0987					
9. 38	14. 20	17. 40	·0977					
14. 0	23. 0	18. 45	·0988					
16. 8	21. 0	23. 50	·0950					
18. 0	24. 55							
21. 0	17. 35							
23. 58	30. 0							
Sep. 25		Sep. 25		Sep. 25				
0. 6	22. 31. 30	1. 30	·0958	0. 5	·01312	1	60 ·0	62 ·0
1. 38	34. 50	18. 30:	·0990	3. 20	·00744	3	65 ·0	67 ·0
6. 30	25. 0	23. 30	·0954	7. 20:	·00815	9	65 ·0	68 ·5
7. 45	22. 30			9. 40:	·00745	21	59 ·0	61 ·0
21. 0:	18. 10			17. 45	·00515			
23. 58	24. 50			23. 54	·01476			
Sep. 26		Sep. 26		Sep. 26				
0. 45	22. 27. 0	0. 30	·0961	0. 40	·01445	1	61 ·0	62 ·0
2. 50	29. 45	18. 0:	·0991	9. 10:	·00978	3	62 ·0	64 ·0
6. 0	24. 20	23. 50	·0957	17. 25	·01468	9	62 ·0	66 ·0
20. 40	18. 10			23. 58	·01384	21	57 ·5	61 ·0
23. 58	28. 35							
Sep. 27		Sep. 27		Sep. 27				
0. 30	22. 29. 30	1. 0	·0961	1. 0	·01284	1	60 ·0	63 ·0
3. 3	31. 45	13. 45	·1001	3. 8	·00952	3	65 ·0	68 ·0
6. 30	26. 30	23. 20	·0945	9. 31:	·00990	9	63 ·0	64 ·0
14. 40:	20. 20			23. 58:	·01470	21	59 ·0	60 ·0
18. 50	20. 55							
	(†)							
21. 40	22. 12*							
	(†)							
Sep. 28		Sep. 28		Sep. 28				
0. 50	22. 33. 10	2. 35	·0952	1. 0	·01418	1	60 ·0	62 ·0
3. 3	34. 0	17. 45	·0988	3. 55	·00764	3	65 ·0	67 ·0
9. 35	24. 10	23. 35	·0966	9. 35:	·00770	9	64 ·5	67 ·0
12. 25	22. 5			18. 3	·01450	22	58 ·0	61 ·0
14. 15	26. 55			23. 50	·01410			
21. 0:	17. 50							
23. 45	27. 50							
Sep. 29		Sep. 29		Sep. 29				
0. 15	22. 30. 0	0. 4	·0969	0. 10	·01410	9	60 ·0	65 ·0
2. 40	34. 0	10. 18	·0991	10. 40:	·00695	21	55 ·0	58 ·0
6. 0	27. 0	10. 35	·1000	20. 45	·01396			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 29		Sep. 29		Sep. 29				
h m	° ′ ″	h m		h m			°	°
11. 0	22. 22. 10	11. 30	·0987	23. 20	·01386			
15. 50	23. 50	16. 12	·0998					
16. 20	22. 5	17. 50	·0991					
17. 35	23. 5	18. 40	·1001					
18. 12	25. 35	23. 42	·0961					
21. 3	18. 25							
23. 58	32. 55							
Sep. 30		Sep. 30		Sep. 30				
1. 12	22. 35. 0	1. 20	·0965	1. 30	·01206	1	60 ·0	62 ·0
6. 0	29. 0	9. 2	·0996	4. 33	·00700	3	62 ·0	63 ·0
10. 25	25. 5	10. 35	·0983	7. 10:	·00730	9	60 ·0	63 ·0
11. 0	19. 0	15. 0	·0990	8. 50:	·00688	21	55 ·0	57 ·0
12. 15	25. 0	15. 25	·1029	16. 37	·01280			
13. 0	22. 0	16. 8	·1009	22. 55	·01342			
13. 28	24. 5	16. 25	·1016	23. 58	·01285			
15. 10	21. 50	18. 15	·0982					
15. 30	20. 0	19. 12	·1013					
16. 42	16. 20	21. 32	·0948					
17. 45	24. 30	23. 30	·0942					
18. 12	23. 55	23. 38	·0966					
18. 35	31. 50	23. 55	·0950					
19. 45	17. 30							
20. 5	24. 55							
21. 20	21. 0							
23. 15	42. 25							
23. 55	36. 50							
Oct. 1		Oct. 1		Oct. 1				
0. 43	22. 38. 10	1. 0	·0936	1. 0	·01200	1	58 ·0	60 ·0
1. 10	35. 45	1. 34	·0978		***	3	61 ·0	62 ·0
1. 30	42. 45	1. 52	·0942	3. 42:	·00802	9	60 ·0	61 ·0
1. 42	38. 15	2. 20	·0960		***	21	52 ·0	53 ·0
2. 12	42. 30	2. 52	·0933	6. 44	·00878			
3. 20	32. 50	3. 20	·0967		***			
3. 52	40. 0	3. 30	·0951	10. 30	·00620			
6. 6	22. 50	3. 42	·0969		***			
6. 28	24. 10	4. 2	·0945	12. 0	·00690			
6. 45	18. 0	5. 10	·0968		***			
7. 32	22. 0	5. 34	·0944	12. 30	·00658			
8. 0	19. 50	6. 18	·0962		***			
8. 28	24. 50	6. 35	·0948	13. 0	·00716			
9. 32	3. 55	8. 5	·0975		***			
10. 20	24. 50	9. 6	·0956	13. 20	·00672			
10. 33	16. 10	9. 52	·1018	15. 12	·00972			
10. 45	19. 55	10. 30	·0953	15. 40	·00960			
10. 55	15. 30	10. 42	·0968	17. 10	·01222			
11. 12	21. 0	10. 55	·0955	23. 0	·01345			
11. 28	19. 50	11. 4	·0971					
11. 40	27. 0	11. 23	·0949					
12. 8	19. 45	12. 15	·0989					
12. 20	22. 55	12. 40	·0952					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 1		Oct. 1						
h m	° ′ ″	h m		h m			°	°
12. 40	22. 13. 20	13. 12	·0994					
13. 12	30. 30	14. 8	·0970					
13. 38	14. 30	15. 13	·0988					
14. 30	21. 0	15. 28	·0962					
15. 0	19. 25	16. 19	·1010					
15. 30	34. 0	17. 30	·0979					
15. 50	18. 58	18. 5	·0992					
16. 45	25. 50	20. 8	·0944					
17. 32	22. 0	22. 50	·0952					
18. 43	34. 0	22. 58	·0963					
19. 55	29. 0	23. 40	·0947					
20. 5	25. 10							
20. 40	29. 0							
22. 50	27. 0							
23. 57	30. 0							
Oct. 2		Oct. 2		Oct. 2				
0. 30	22. 29. 20	0. 20	·0953	0. 30	·01500	1	55 ·0	57 ·0
3. 6	31. 0	2. 6	·0971		***	3	58 ·0	58 ·0
3. 42	16. 40	3. 30	·0944	3. 55	·01120	9	58 ·0	60 ·0
4. 40	25. 0	4. 0	·0986		***	21	54 ·0	55 ·0
5. 22	16. 55	4. 40	·0958	5. 8	·00918			
5. 40	21. 30	4. 42	·0989		***			
5. 56	14. 55	4. 54	·0966	6. 20	·01110			
6. 12	22. 30	5. 2	·0984		***			
6. 20	11. 10	5. 34	·0965	7. 10	·01000			
6. 25	19. 35	6. 18	·0980		***			
7. 27	5. 20	6. 34	·0958	7. 18	·01065			
8. 35	25. 40	8. 18	·0949		***			
10. 10	20. 0	10. 0	·0954	7. 25	·00935			
10. 25	24. 55	10. 30	·1014		***			
10. 28	23. 0	10. 50	·0968	7. 50	·00878			
10. 42	33. 0	10. 58	·0985	10. 10	·00825			
10. 55	27. 56	11. 5	·0952	10. 48	·00642			
11. 2	35. 10	11. 22	·1000	23. 5	·01520			
11. 15	19. 12	11. 58	·0938					
11. 42	31. 55	12. 32	·0962					
12. 26	13. 5	12. 53	·0938					
13. 28	29. 5	14. 38	·0991					
14. 2	14. 20	16. 0	·0970					
14. 42	26. 5	16. 45	·1020					
15. 12	17. 0	18. 24	·0958					
16. 5	33. 50	19. 2	·0956					
16. 28	20. 30	20. 35	·0979					
20. 3	29. 30	22. 35	·0947					
23. 58	28. 30	23. 55	·0967					
Oct. 3		Oct. 3		Oct. 3				
0. 50	22. 31. 30	0. 20	·0964	0. 30	·01430	1	58 ·0	59 ·0
3. 50	23. 5	1. 58	·0955	5. 28	·00880	3	60 ·0	62 ·0
6. 30	23. 0	2. 50	·0978	6. 40	·00905	8	60 ·0	62 ·0
7. 52	19. 20	3. 32	·0956	9. 40:	·00815	21	55 ·0	58 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 3		Oct. 3		Oct. 3				
h m	° ′ ″	h m		h m			°	°
8. 35	22. 23. 50	4. 0	·0975	20. 12	·01590			
9. 25	12. 20	7. 22	·0970	23. 55	·01520			
10. 52	25. 55	8. 36	·0998					
11. 3	19. 50	10. 20	·0964					
11. 32	28. 10	11. 28	·1000					
21. 0:	19. 20	12. 0	·0978					
23. 58	27. 45	16. 45	·0988					
		22. 40	·0955					
Oct. 4		Oct. 4		Oct. 4				
0. 5	22. 28. 0	0. 30	·0966	0. 15	·01496	1	60 ·0	61 ·0
2. 0	30. 45	18. 0	·0993	4. 25	·00890	3	60 ·0	62 ·0
5. 0	25. 0	23. 30	·0965	9. 40:	·00863	9	60 ·0	61 ·0
18. 0:	23. 12			19. 20	·01608	21	54 ·0	55 ·0
20. 38	18. 55			23. 30	·01572			
23. 58	33. 20							
Oct. 5		Oct. 5		Oct. 5				
0. 30	22. 35. 35	0. 30	·0964	0. 30	·01514	1	60 ·0	61 ·7
2. 32	36. 5	2. 34	·0982	3. 35	·00942	3	65 ·0	67 ·0
4. 0	30. 0	4. 0	·0964	9. 17	·00910	9	62 ·0	66 ·3
9. 28	24. 10	10. 0	·0982	15. 18	·01596	22	52 ·0	56 ·0
10. 32	15. 50	10. 40	·1016	23. 25:	·01484			
15. 30	26. 35	11. 12	·0995					
16. 55	21. 20	12. 30	·0984					
19. 0	30. 0	16. 38	·1008					
19. 45	23. 5	18. 34	·0972					
23. 20	32. 20	19. 30	·0996					
		22. 53	·0967					
Oct. 6		Oct. 6		Oct. 6				
0. 15	22. 37. 50	0. 0	·0959	0. 0	·01514	9	58 ·0	63 ·0
3. 30	32. 30	3. 2	·0977	6. 0	·00848	21	58 ·0	60 ·0
4. 8	22. 50	3. 36	·0963	6. 58	·00880			
13. 28	23. 10	4. 30	·0985	10. 0	·00820			
14. 5	19. 55	4. 32	·0986	17. 45:	·00790			
15. 40	14. 45	6. 8	·0977	22. 20	·00915			
17. 5	25. 0	11. 50	·0998					
19. 50	19. 0	13. 23	·0988					
23. 58	35. 55	13. 30	·1003					
		14. 40	·0990					
		15. 45	·1006					
		16. 42	·0979					
		17. 50	·1010					
		23. 50	·0957					
Oct. 7		Oct. 7		Oct. 7				
1. 0	22. 35. 50	1. 10	·0961	0. 50	·00867	1	61. 0	64 ·0
3. 0	35. 0	6. 12	·0945	9. 35	·01008	3	62 ·5	64 ·5
3. 12	35. 30	8. 52	·0971	15. 28	·01383	9	60 ·0	63 ·5
3. 30	33. 40	9. 50	·0957	21. 51	·01520	21	53 ·0	58 ·0
3. 53	33. 30	12. 38	·0989	23. 30	·01555			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 7		Oct. 7						
h m	° ′ ″	h m		h m			°	°
3. 55	22. 21. 30	12. 55	·0977					
8. 0	18. 15	13. 25	·0993					
9. 18	9. 30	14. 40	·0982					
11. 50	17. 10	17. 23	·0991					
12. 30	12. 5	23. 15	·0965					
13. 30	22. 55							
14. 0	17. 10							
18. 33	18. 0							
23. 55	26. 0							
Oct. 8		Oct. 8		Oct. 8				
0. 10	22. 27. 0	0. 20	·0958	0. 30	·01485	1	60 ·0	63 ·0
7. 20	18. 0	7. 45	·0970	3. 22	·00953	3	63 ·0	65 ·0
9. 18	9. 55	9. 0	·0987	7. 32	·00974	9	61 ·0	62 ·8
9. 55	21. 40	10. 18	·0974	10. 18	·00952	21	53 ·0	55 ·0
10. 28	8. 25	10. 32	·0994	16. 48	·01585			
12. 2	8. 30	10. 50	·0975	21. 56	·01524			
13. 33	15. 50	16. 30	·0998	23. 32	·01560			
14. 12	12. 0	17. 35	·0984					
15. 25	19. 50	18. 12	·0997					
19. 30	26. 0	19. 10	·0981					
20. 42	16. 5	20. 5	·0996					
22. 45	19. 0	22. 32	·0957					
23. 55	24. 50	23. 50	·0965					
Oct. 9		Oct. 9		Oct. 9				
0. 40	22. 23. 0	0. 33	·0969	1. 0	·01514	1	56 ·0	58 ·0
1. 50	26. 0	4. 0	·0967	6. 20	·00890	3	60 ·0	61 ·0
2. 25	23. 0	5. 40	·0985	10. 50	·00795	9	59 ·0	62 ·0
5. 30	19. 10	6. 30	·0975	19. 30	·01538	21	50 ·0	52 ·0
7. 0	17. 20	7. 30	·0995	22. 0	·01473			
9. 25	12. 0	8. 25	·0981	23. 35	·01522			
11. 2	10. 25	9. 50	·1013					
16. 0	19. 45	12. 20	·0982					
20. 45	13. 50	19. 50	·1007					
23. 56	22. 45	23. 58	·0962					
Oct. 10		Oct. 10		Oct. 10				
0. 20	22. 22. 50	0. 30	·0965	0. 12	·01496	1	56 ·0	58 ·0
2. 19	26. 0	12. 30	·0996	3. 33	·00860	3	60 ·0	63 ·0
5. 0	19. 30	13. 30	·0991	8. 38:	·00824	9	56 ·0	58 ·0
8. 57	14. 10	19. 10	·1004	16. 25	·01504	21	49 ·0	52 ·5
18. 0	17. 50	23. 30	·0974	23. 30	·01485			
20. 45	15. 0							
23. 58	22. 20							
Oct. 11		Oct. 11		Oct. 11				
0. 10	22. 23. 10	0. 50	·0974	0. 30	·01448	1	50 ·0	55 ·0
2. 17	24. 45	18. 30:	·1008	6. 15	·00800	3	55 ·0	58 ·0
6. 0	18. 20	23. 58	·0972	8. 35	·00764	9	53 ·5	57 ·0
20. 35	13. 20			17. 8	·01480	21	45 ·0	48 ·0
23. 55	22. 25			21. 54	·01446			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″	h m		h m			°	°
				Oct. 11				
				23. 0	·01474			
				23. 58	·01410			
Oct. 12		Oct. 12		Oct. 12				
0. 30	22. 22. 30	0. 20	·0976	0. 30	·01300	1	54 ·0	57 ·0
5. 0	19. 30	12. 35	·1002	2. 35	·00852	3	60 ·0	63 ·0
11. 30	16. 20	14. 28	·0991	6. 30:	·00968	9	56 ·0	58 ·0
12. 0	19. 20	19. 8	·1005	9. 28:	·00878	23	46 ·0	47 ·0
14. 5	9. 50	23. 33	·0983	15. 55	·01550			
18. 0:	17. 0			23. 36	·01460			
21. 30	14. 10							
23. 40	19. 10							
Oct. 13		Oct. 13		Oct. 13				
0. 0	22. 18. 15	0. 30	·0981	1. 0	·01486	9	50 ·0	52 ·0
2. 27	22. 50	12. 20	·1009	13. 0:	·01085	21	50 ·0	54 ·0
6. 0	18. 30	16. 42	·1000	23. 0	·01165			
14. 15	14. 20	17. 15	·1014					
16. 20	10. 30	18. 15	·1004					
16. 58	16. 40	19. 0	·1023					
20. 50	9. 0	23. 22	·0986					
23. 55	16. 55							
Oct. 14		Oct. 14		Oct. 14				
1. 10	22. 21. 45	1. 3	·0983	1. 10	·01040	1	54 ·0	56 ·0
5. 0	16. 0	9. 20	·1000	3. 28	·00780	3	55 ·0	57 ·0
14. 0	13. 0	16. 30	·0993	6. 30:	·00890	9	56 ·0	59 ·0
16. 42	15. 55	20. 5	·1000	10. 30:	·00825	21	54 ·0	56 ·0
21. 0	13. 0	23. 30	·0972	23. 35	·01305			
23. 58	23. 0							
Oct. 15		Oct. 15		Oct. 15				
0. 20	22. 26. 30	0. 20	·0982	0. 30	·01276	1	55 ·0	57 ·0
6. 0	17. 20	5. 28	·0964	4 40	·00940	3	58 ·0	60 ·0
9. 5	14. 0	6. 25	·0976	6. 12	·01000	9	56 ·0	58 ·0
10. 2	7. 20	6. 32	·0962	9. 50	·00904	21	49 ·0	51 ·0
13. 20	20. 20	6. 55	·0974	15. 30	·01522			
20. 30	16. 0	8. 2	·0966	21. 30	·01438			
23. 55	23. 50	9. 35	·1003	23. 30	·01470			
		9. 55	·0983					
		14. 10	·1000					
		20. 38	·0996					
		23. 40	·0972					
Oct. 16		Oct. 16		Oct. 16				
1. 35	22. 24. 0	0. 42	·0976	0. 30	·01340	1	55 ·0	57 ·0
6. 32	19. 0	5. 0	·0970	2. 28	·00896	3	60 ·0	62 ·0
8. 25	12. 30	7. 0	·0978	6. 22	·01035	9	60 ·0	62 ·0
8. 40	17. 0	8. 0	·0965	9. 40	·00945	21	50 ·0	52 ·5
9. 25	13. 50	8. 32	·0987	17. 0	·01600			
10. 12	18. 30	9. 10	·0973	23. 58	·01560			
13. 40	10. 30	13. 20	·0988					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 16		Oct. 16						
h m	° ′ ″	h m		h m			°	°
14. 40	22. 16. 0	14. 30	·0976					
20. 32	13. 25	17. 58	·0993					
23. 55	24. 50	23. 0	·0975					
Oct. 17		Oct. 17		Oct. 17				
0. 30	22. 24. 0	0. 50	·0981	0. 50	·01475	1	58 ·0	60 ·0
8. 0	18. 0	5. 42	·0970	3. 12	·00978	3	60 ·0	60 ·0
8. 32	14. 15	7. 45	·0980	6. 25	·01070	9	60 ·0	63 ·5
9. 12	17. 50	8. 25	·0972	9. 34	·00978	21	54 ·0	56 ·0
10. 40	13. 35	9. 0	·0992	19. 12	·01675			
20. 30	15. 25	10. 0	·0972	23. 58	·01640			
21. 28	12. 5	19. 5	·0993					
23. 58	21. 0	23. 15	·0966					
		23. 58	·0973					
Oct. 18		Oct. 18		Oct. 18				
0. 30	22. 22. 10	0. 30	·0970	0. 30	·01610	1	55 ·0	58 ·0
1. 25	23. 40	4. 37	·0979	4. 25	·01068	3	60 ·0	63 ·0
5. 0	17. 10	5. 37	·0962	6. 10	·01130	9	63 ·0	65 ·0
5. 40	10. 30	6. 20	·0980	10. 30	·01025	21	55 ·0	58 ·0
7. 0:	15. 10	19. 0	·0987	20. 45	·01745			
17. 35:	15. 0	23. 30	·0969	23. 58	·01680			
21. 33	11. 0							
23. 58	19. 45							
Oct. 19		Oct. 19		Oct. 19				
0. 20	22. 20. 50	0. 10	·0972	0. 30	·01672	1	60 ·0	62 ·0
6. 45	16. 30	6. 45	·0984	10. 0:	·01003	3	60 ·0	62 ·0
7. 10	1. 50	6. 58	·0973	19. 48	·01125	9	61 ·0	64 ·5
9. 2	15. 50	7. 25	·1002	23. 16	·01672	22	55 ·0	58 ·0
21. 10:	12. 5	8. 38	·0971					
23. 15	18. 0	18. 0:	·0992					
		23. 12	·0974					
Oct. 20		Oct. 20		Oct. 20				
0. 0	22. 20. 45	0. 30	·0972	0. 0	·01680	11	55 ·0	56 ·0
7. 30	15. 50	8. 6	·0991	3. 30	·01722	21	50 ·0	51 ·0
8. 0	11. 0	9. 2	·1005	21. 51:	·01540			
8. 32	13. 20	11. 15	·0991	23. 10	·01580			
8. 58	8. 50	19. 0	·1004					
9. 32	12. 50	20. 5	·0997					
10. 0	11. 10		(†)					
12. 35	14. 50	21. 40	·0981*					
12. 50	17. 30		(†)					
13. 10	13. 45							
17. 30	15. 20							
21. 2	11. 55							
23. 57	22. 0							
Oct. 21		Oct. 21		Oct. 21				
1. 10	22. 22. 20	1. 15	·0978	1. 30	·01360	1	55 ·0	57 ·0
4. 0	18. 0	19. 0:	·1011	3. 56	·00890	3	58 ·0	59 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 21		Oct. 21		Oct. 21				
h m	° ′ ″	h m		h m			°	°
12. 45:	22. 15. 45	23 15	·0982	8. 30:	·00836	9	55 ·0	57 ·0
20. 35	12. 30			15. 30	·01562	21	46 ·0	47 ·0
23. 58	22. 0			23. 55	·01470			
Oct. 22		Oct. 22		Oct. 22				
0. 30	22. 23. 0	0. 20	·0986	1. 0	·01440	1	50 ·0	52 ·0
4. 55	16. 0	19. 30:	·0974	6. 50:	·00780	3	53 ·0	54 ·0
20. 40	12. 0		***	14. 45	·01448	9	48 ·0	52 ·0
23. 55	19. 15	23. 14	·0998	20. 45	·01501	22	45 ·0	47 ·0
				23. 58	·01250			
Oct. 23		Oct. 23		Oct. 23				
0. 5	22. 20. 0	0. 30	·1006	0. 15	·01220	1	50 ·0	52 ·0
11. 15	15. 30	12. 57	·1022	2. 52	·00774	3	53 ·0	54 ·0
13. 10	11. 45	19. 0	·1020	6. 10	·00850	9	52 ·0	56 ·0
16. 5	15. 58	23. 48	·0987	9. 27	·00800	21	48 ·0	50 ·0
21. 10	12. 15			23. 0	·01358			
23. 55	21. 0							
Oct. 24		Oct. 24		Oct. 24				
1. 0	22. 23. 0	1. 0	·0998	0. 30	·01300	1	50 ·0	52 ·0
1. 32	24. 5	4. 58	·1009	9. 14:	·00865	3	52 ·0	53 ·0
5. 0	18. 50	11. 45	·1019	20. 55	·01525	9	50 ·0	51 ·0
12. 10	16. 35	18. 0	·1022	23. 55	·01300	21	47 ·0	51 ·0
20. 40	13. 20	23. 30	·0986					
23. 58	22. 0							
Oct. 25		Oct. 25		Oct. 25				
0. 32	22. 28. 0	0. 30	·0990	0. 30	·01460	1	50 ·0	53 ·0
3. 55	27. 0	2. 0	·0988	5. 16	·00902	3	55 ·0	57 ·0
5. 45	19. 0	2. 36	·0997	5. 40	·00952	9	53 ·0	56 ·0
6. 0	12. 50	4. 20	·0990	11. 5:	·00872	21	48 ·5	51 ·5
6. 28	19. 0	5. 10	·1000	21. 2	·01540			
6. 40	14. 50	5. 32	·0987	23. 30	·01540			
7. 0	20. 30	6. 12	·1006					
10. 0	7. 45	7. 10	·0979					
13. 2	16. 5	8. 17	·0990					
13. 30	7. 55	8. 30	·0974					
14. 0	7. 45	8. 45	·0988					
17. 32	18. 30	9. 47	·0981					
21. 0	14. 10	13. 0	·1000					
23. 58	21. 0	13. 45	·1015					
		14. 32	·1001					
		17. 2	·0996					
		18. 40	·1014					
		23. 50	·0980					
Oct. 26		Oct. 26		Oct. 26				
0. 15	22. 23. 10	0. 30	·0989	0. 30	·01506	1	52 ·0	53 ·0
3. 0	28. 5	3. 28	·0982	4. 40	·00930	3	55 ·0	57 ·0
5. 10	19. 25	6. 0	·0998	10. 0	·00870	9	54 ·0	55 ·0
7. 27	16. 50	7. 36	·0987	17. 18	·01550	22	45 ·0	48 ·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 26		Oct. 26		Oct. 26				
h m	° ′ ″	h m		h m			°	°
7. 55	22. 5. 50	8. 12	·1004	23. 10	·01475			
9. 41:	16. 30	8. 55	·0996					
21. 40	14. 10	19. 0:	·1023					
23. 7	19. 15	23. 5	·0991					
Oct. 27		Oct. 27		Oct. 27				
0. 0	22. 23. 0	0. 0	·0993	1. 0	·01510	9	49 ·0	52 ·0
2. 28	27. 5	4. 7	·0992	9. 49	·00893	21	50 ·5	54 ·0
8. 30	16. 0	4. 40	·1004	19. 3	·00766			
8. 56	12. 30	6. 35	·0993	23. 58	·00835			
9. 52	17. 0	8. 0	·1006					
10. 30	11. 30	8. 48	·0999					
13. 15	15. 0	9. 30	·1018					
14. 12	10. 15	10. 0	·1005					
14. 58	16. 0	13. 50	·1019					
22. 0	12. 55	14. 38	·1003					
23. 58	19. 20	19. 25	·1012					
		23. 58	·0980					
Oct. 28		Oct. 28		Oct. 28				
1. 10	22. 23. 0	1. 5	·0985	1. 30	·00890	1	55 ·0	57 ·0
5. 0	17. 0	13. 18	·1021	8. 0:	·00898	3	56 ·0	58 ·0
14. 28	12. 30	14. 25	·1006	18. 5	·01550	9	54 ·0	56 ·0
14. 45	15. 5	15. 25	·1027	22. 5	·01500	21	45 ·0	47 ·0
15. 27	11. 50	17. 0	·1015	23. 58	·01550			
17. 10	22. 5	18. 8	·1038					
21. 15	15. 5	23. 5	·0983					
23. 58	21. 35							
Oct. 29		Oct. 29		Oct. 29				
0. 30	22. 23. 0	0. 35	·0992	1. 0	·01475	1	50 ·0	52 ·0
1. 30	28. 30	1. 35	·1003	4. 40	·00910	3	53 ·0	57 ·0
6. 10	17. 0	2. 37	·0980	10. 30	·00882	9	53 ·0	56 ·0
7. 35	9. 5	6. 10	·1007	17. 18	·01484	21	45 ·0	47 ·0
8. 0	12. 0		***	23. 55	·01470			
9. 26	7. 55	7. 30	·0982					
10. 5	15. 30		***					
10. 28	13. 0	9. 0	·0983					
10. 40	15. 0	10. 23	·1012					
12. 37	7. 20	14. 47	·1004					
13. 30	15. 0	16. 30	·1027					
14. 0	12. 45	17. 15	·1012					
15. 25	16. 58	18. 40	·1025					
16. 20	22. 50	23. 8	·0989					
17. 28	15. 5							
19. 50	21. 20							
20. 40	15. 0							
23. 58	21. 0							
Oct. 30		Oct 30		Oct. 30				
0. 28	22. 25. 0	0. 26	·0998	0. 30	·01450	1	49 ·0	50 ·0
0. 36	22. 0	2. 25	·0980	4. 30	·00882	3	55 ·0	56 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 30		Oct. 30		Oct. 30				
h m	° ′ ″	h m		h m			°	°
4. 30	22. 20. 0	4. 20	·1003	15. 18:	·00825	9	54 ·0	56 ·0
4. 45	15. 10	4. 42	·0989	22. 42:	·01068	21	53 ·0	55 ·0
5. 10	17. 0	8. 20	·1012					
8. 50	15. 20	10. 12	·1004					
9. 40	9. 58	10. 36	·1030					
10. 6	12. 10	11. 28	·1003					
10. 30	3. 30	14. 20	·0997					
12. 0	15. 0	15. 25	·1022					
14. 0	16. 10	17. 30	·1005					
14. 30	23. 30	19. 50	·1014					
16. 0	14. 55	23. 35	·0978					
23. 58	33. 0							
Oct. 31		Oct. 31		Oct. 31				
0. 30	22. 32. 40	1. 0	·0976	1. 15	·00902	1	56 ·0	58 ·0
5. 43	16. 0	1. 55	·0988	5. 30:	·01032	3	58 ·0	60 ·0
6. 32	11. 50	4. 45	·0984	8. 25:	·00924	9	56 ·0	59 ·0
7. 40	16. 0	8. 37	·1014	19. 30	·01292	21	55 ·0	57 ·0
8. 30	8. 0	10. 40	·1003	23. 58	·01056			
9. 15	13. 30	14. 35	·1009					
9. 36	10. 50	16. 0	·1001					
13. 55	15. 45	18. 11	·1011					
14. 20	18. 58	23. 42	·0973					
21. 15	13. 25							
23. 58	21. 45							
Nov. 1		Nov. 1		Nov. 1				
0. 10	22. 25. 0	0. 30	·0977	0. 30	·01047	1	60 ·0	62 ·0
3. 12	21. 40	4. 0	·0991	5. 55:	·01130	3	60 ·5	63 ·5
3. 25	18. 40	4. 55	·0976	8. 30:	·01052	9	60 ·0	63 ·0
4. 50	16. 30	18. 30:	·1007	20. 0:	·01407	21	60 ·0	62 ·0
6. 0	18. 30	23. 0	·0972	23. 55	·01308			
7. 30	17. 20							
18. 0	16. 50							
21. 15	13. 40							
23. 55	21. 50							
Nov. 2		Nov. 2		Nov. 2				
0. 15	22. 22. 50	0. 20	·0979	0. 30	·01245	1	62 ·0	64 ·0
6. 12	17. 40	7. 20	·0996	2. 0	·01088	3	64 ·0	66 ·0
6. 40	17. 30	9. 25	·0983	10. 5:	·01105	9	63 ·0	67 ·0
7. 10:	11. 30	13. 45	·1004	18. 57	·01790	21	54 ·0	56 ·0
8. 0	12. 40	15. 50	·0998	23. 12	·01732			
8. 28	10. 30	18. 10	·1009					
14. 50	20. 0	19. 2	·1001					
15. 30	18. 40	23. 20	·0981					
16. 0:	23. 30							
16. 50	17. 0							
18. 40	17. 30							
20. 15	22. 20							
21. 15	17. 30							
23. 10	21. 50							

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov. 3	° ′ ″	Nov. 3		Nov. 3			°	°
h m		h m		h m				
0. 0	22. 23. 20	0. 0	·0984	1. 10:	·01778	11	56 ·0	58 ·0
1. 0	24. 30	3. 45	·0985	8. 25:	·01178	21	57 ·0	59 ·0
5. 5	16. 10	16. 0:	·1009	17. 0:	·01485			
7. 0	15. 30	23. 30	·0985	23. 55	·01300			
11. 20:	17. 40							
12. 0	15. 0							
19. 0	15. 30							
21. 45	15. 10							
23. 55	21. 0							
Nov. 4		Nov. 4		Nov. 4				
0. 30	22. 22. 30	0. 40	·0986	0. 30	·01230	1	59 ·0	60 ·0
5. 35	17. 30	1. 35	·0993	4. 38	·01046	3	60 ·0	62 ·0
6. 30	17. 0	3. 10	·0987	5. 45:	·01070	9	58 ·0	61 ·0
19. 20	16. 20	18. 30	·1020	7. 30:	·01035	21	52 ·0	56 ·0
21. 30	14. 40	23. 2	·0990	14. 0	·01715			
23. 55	21. 10			23. 55	·01580			
Nov. 5		Nov. 5		Nov. 5				
0. 30	22. 22. 30	0. 30	·0996	1. 0	·01498	1	55 ·0	57 ·0
4. 45	17. 50	17. 0	·1014	4. 30	·00992	3	56 ·0	58 ·5
19. 50	16. 50	23 30	·0982	5. 50:	·01040	9	58 ·0	61 ·5
21. 30	15. 0			9. 35:	·00970	21	54 ·0	57 ·3
22. 20	15. 30			23. 0	·01370			
23. 55	22. 0							
Nov. 6		Nov. 6		Nov. 6				
0. 35	22. 22. 30	0. 42	·0989	1. 0	·01222	1	59 ·0	60 ·0
6. 0	17. 0	4. 55	·1004	2. 20	·01050	3	60 ·0	62 ·0
7. 0	20. 30	9. 30	·0992	4. 10:	·01120	9	59 ·0	60 ·0
8. 55	16. 30	10. 32	·1003	8. 0	·01052	21	53 ·5	56 ·5
9. 12	18. 30	10. 58	·0986	16. 56	·01600			
9. 55	13. 20	11. 28	·0998	22. 0	·01540			
10 12	14. 40	11. 55	·0994	23. 30	·01558			
10. 35	12. 20	19. 30	·1018					
10. 50	13. 30	23. 12	·0995					
11. 15	8. 20							
11. 40:	12 30							
12. 5	11. 0							
12. 38	13. 20							
13. 12	13. 0							
14. 0	16. 50							
18 30	20. 0							
21. 40	15. 0							
23 25	21. 30							
Nov. 7		Nov. 7		Nov. 7				
1. 0	22. 24. 10	1. 28	·0989	1. 0	·01672	1	55 ·0	57 ·0
7. 30	15 0	6. 30	·0998	2. 8	·01688	3	59 ·0	60 ·0
7. 50	13. 20	7. 33	·0989	7. 20:	·01025	9	59 ·0	61 ·0
8. 20	16. 0	8. 5	·0998	10. 40:	·00990	21	56 ·0	58 ·0
11. 15	14. 0	16. 45	·1011	20. 30:	·01345			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov. 7	° ′ ″	Nov. 7		Nov. 7				
h m		h m		h m				
11. 30:	22. 12. 30	23. 40	·0984	23. 55	·01270			
12. 20	15. 0							
14. 0	13. 50							
15. 0:	10. 0							
16. 30	14. 40							
21. 0	17. 0							
23. 55	19. 0							
Nov. 8		Nov. 8		Nov. 8				
0. 30	22. 21. 15	1. 2	·0980	0. 50	·01210	1	58 ·0	60 ·0
5. 20	18. 20	18. 0:	·1023	3. 23	·01008	3	60 ·0	62 ·0
11. 8	16. 0	23. 50	·0996	14. 23	·01518	9	57 ·0	59 ·0
17. 0	20. 30			21. 58	·01400	21	48 ·5	52 ·0
21. 30	16. 40			23. 30	·01440			
23. 55	21. 50							
Nov. 9		Nov. 9		Nov. 9				
0. 15	22. 22. 40	0. 8	·1000	0. 15	·01560	1	54 ·0	56 ·0
1. 3	25. 0	3. 13	·0994	4. 28	·00962	3	58 ·0	59 ·0
1. 45	22. 50	7. 30	·1006	8. 30:	·00935	9	58 ·0	59 ·0
9. 30	16. 50	13. 0	·1011	19. 0:	·00935	22	55 ·0	57 ·0
10. 0	14. 30	23. 12	·0997	23. 14	·00988			
23. 20	18. 20							
Nov. 10		Nov. 10		Nov. 10				
0. 0	22. 20. 30	0. 0	·0997	0. 0	·00982	10	59 ·0	60 ·0
1. 30	22. 50	3. 35	·1008	2. 55	·00942	21	55 ·0	57 ·0
6. 55	21. 10	4. 25	·1008	7. 40	·01055			
7. 25	12. 10	6. 26	·1010	15. 40	·00994			
8. 0	20. 15	7. 15	·0979	23. 55	·01254			
9. 10	17. 0	8. 0	·0994					
9. 55	2. 0	8. 14	·0987					
10. 45	8. 0	9. 15	·0998					
11. 0	8. 30	10. 57	·0979					
15. 20	18. 40	16. 20	·1008					
15. 40	14. 30	23. 8	·0983					
22. 45	20. 30							
23. 55	24. 10							
Nov. 11		Nov. 11		Nov. 11				
0. 35	22. 24. 30	1. 20	·0977	0. 40	·01268	1	59 ·0	61 ·0
1. 20	22. 30	3. 25	·0987	3. 6	·01058	3	60 ·0	62 ·0
2. 10	24. 30	5. 45	·0979	9. 26	·01232	9	60 ·0	62 ·0
7. 20	16. 40	19. 42	·1009	21. 52	·01725	21	55 ·0	58 ·0
14. 30	19. 20	23. 55	·0989	23. 58	·01705			
15. 30:	16. 0							
20. 40	15. 40							
23. 55	23. 0							
Nov. 12		Nov. 12		Nov. 12				
0. 30	22. 24. 40	0. 35	·0991	0. 35	·01660	1	58 ·0	60 ·0
1. 20	22. 30	4. 0	·0983	7. 45:	·01110	3	60 ·0	61 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov. 12		Nov. 12		Nov. 12				
h m	° ′ ″	h m		h m			°	°
2. 0	22. 24. 30	4. 30	·0963	16. 0	·01680	9	58 ·0	61 ·0
4. 5	21. 0	5. 5	·0988	23. 10	·01570	21	50 ·0	52 ·0
4. 35	9. 0	5. 52	·0985					
5. 30	20. 0	6. 30	·1000					
14. 0	18. 0	14. 22:	·1012					
14. 30	23. 45	14. 58	·1027					
15. 15	13. 15	23. 10	·1000					
16. 0	12. 0							
20. 15	19. 0							
22. 15	17. 30							
23. 55	23. 0							
Nov. 13		Nov. 13		Nov. 13				
0. 55	22. 25. 0	0. 0	·1000	1. 5	·01600	1	52 ·0	53 ·0
4. 30	19. 20	6. 15	·0994	10. 20	·01000	3	55 ·0	57 ·0
6. 10	22. 30	6. 28	·1007	19. 48	·01566	9	53 ·0	54 ·0
6. 30	21. 0	7. 25	·0975	23. 0	·01500	21	48 ·0	50 ·0
6. 40	16. 40	8. 23	·1002					
6. 55	23. 20	19. 25	·1017					
7. 5	18. 30	23. 50	·1000					
8. 50	16. 30							
9. 45	17. 0							
9. 56	13. 30							
13. 45	16. 50							
14. 25	19. 50							
15. 55	16. 30							
19. 0	18. 20							
21. 50	16. 30							
23. 55	21. 30							
Nov. 14		Nov. 14		Nov. 14				
0. 35	22. 22. 10	0. 35	·1001	1. 0	·01500	1	51 ·0	52 ·0
4. 0	20. 0	4. 0	·0990	4. 30	·00918	3	56 ·0	57 ·0
12. 20	18. 45	12. 28	·1008	5. 45:	·00940	10	52 ·0	55 ·0
12. 40	11. 0	12. 45	·1027	8. 45:	·00860	21	43 ·0	45 ·0
13. 19	16. 0	13. 33	·1012	15. 24	·01521			
15. 30	19. 10	19. 35:	·1024	20. 10	·01440			
22. 10	17. 45	23. 0	·1010	23. 58	·01482			
23. 55	21. 20							
Nov. 15		Nov. 15		Nov. 15				
0. 30	22. 24. 30	0. 42	·1011	0. 30	·01466	1	47 ·0	49 ·0
6. 20	17. 15	3. 32	·0998	4. 50	·00868	3	52 ·0	54 ·0
14. 20	16. 30	14. 0:	·1016	10. 30:	·00802	9	50 ·0	52 ·0
14. 45	19. 0	14. 32	·1022	19. 10:	·00938	21	49 ·0	50 ·0
15. 10	16. 0	16. 0	·1016	23. 28	·00845			
22. 0	18. 0	23. 58	·0997					
23. 55	23. 15							
Nov. 16		Nov. 16		Nov. 16				
0. 30	22. 25. 6	0. 30	·1000	0. 30	·00918	1	53 ·0	55 ·0
3. 0	20. 0	3. 16	·0990	4. 0	·01035	3	58 ·0	59 ·4

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov. 16		Nov. 16		Nov. 16				
h m	° ′ ″	h m		h m			°	°
6. 30	22. 18. 0	6. 0	·1002	13. 30:	·00950	9	57 ·0	59 ·0
9. 20	17. 30	8. 0	·0995	21. 2	·01622	22	49 ·0	51 ·0
10. 0	14. 30	9. 40	·1012	23. 25	·01576			
18. 20	19. 30	10. 35	·1002					
18. 30	18. 0	13. 45	·1009					
22. 0	16. 30	14. 30	·1002					
23. 20	20. 0	18. 0	·1013					
		23. 18	·1004					
Nov. 17		Nov. 17		Nov. 17				
0. 0	22. 21. 20	0. 0	·1005	0. 25	·01598	11	50 ·0	52 ·0
1. 10	24. 20	1. 32	·1000	2. 30	·01660	21	49 ·0	50 ·0
4. 0	19. 30	10. 10	·1017	9. 0:	·01465			
6. 15	18. 30	23. 58	·0994	21. 0	·01628			
12. 0	17. 0							
12. 30	15. 10							
15. 35	19. 20							
22. 10	16. 30							
23. 55	20. 30							
Nov. 18		Nov. 18		Nov. 18				
0. 35	22. 22. 30	0. 32	·0997	1. 0	·01340	1	54 ·0	54 ·8
1. 50	24. 0	7. 10	·1008	4. 0	·00978	3	55 ·0	57 ·0
5. 30	20. 0	18. 40	·1026	9. 0:	·00942	9	53 ·0	56 ·0
7. 0	18. 45	23. 33	·0997	16. 30:	·01062	21	55 ·0	56 ·5
7. 35	12. 45	23. 52	·0982	22. 25	·00962			
7. 50	13. 10							
7. 52	17. 30							
9. 0	20. 40							
20. 0	20. 0							
21. 0	18. 30							
23. 55	26. 30							
Nov. 19		Nov. 19		Nov. 19				
0. 30	22. 27. 20	0. 42	·0994	0. 30	·01028	1	59 ·0	60 ·0
0. 38	28. 50	9. 30	·1009	2. 42	·01080	3	60 ·0	61 ·0
0. 40	26. 0	14. 0	·1007	6. 45	·01046	9	55 ·0	56 ·7
6. 0	20. 45	14. 24	·1038	15. 30:	·01688	21	51 ·5	54 ·0
9. 48	19. 0	15. 0	·1011	23. 50	·01650			
10. 10	15. 20	17. 0	·1009					
10. 20	18. 30	18. 30	·1029					
12. 20	21. 50	23. 55	·1014					
14. 5	19. 30							
14. 25	23. 45							
15. 0	10. 20							
15. 40	15. 40							
18. 10	20. 0							
18. 25	15. 30							
18. 35	18. 30							
19. 0	17. 0							
19. 20	20. 30							
19. 25	17. 0							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov. 19								
h m	° ′ ″	h m		h m			°	°
23. 55	22. 23. 20							
Nov. 20		Nov. 20		Nov. 20				
0. 30	22. 23. 20	1. 0	·1020	0. 30	·01620	1	53·0	54·0
5. 25	22. 0	4. 22	·1011	9. 40	·01065	3	54·0	56·0
6. 40	24. 30	4. 37	·1018	23. 40:	·01058	9	54·0	56·0
8. 5	19. 20	5. 6	·1009			21	51·0	53·0
9. 38	18. 40	6. 52	·1007					
10. 25:	13. 20	9. 0	·1020					
13. 30	21. 30	9. 50	·1014					
22. 0	20. 30	10. 22	·1021					
23. 55	25. 0	11. 30	·1011					
		19. 50:	·1024					
		22. 42	·1009					
		23. 15	·0998					
		23. 58	·1004					
Nov. 21		Nov. 21		Nov. 21				
0. 40	22. 25. 0	0. 50	·0997	1. 0	·01218	1	54·0	56·0
1. 5	26. 30	6. 20	·1003	3. 45	·01013	3	55·0	57·0
2. 10	23. 15	9. 15	·1004	7. 12	·00982	9	54·0	56·0
5. 20	20. 45	9. 30	·1022	17. 48	·01660	21	49·0	52·0
9. 0	20. 40	9. 57	·1007	22. 48	·01645			
9. 26	13. 0	19. 30	·1024					
9. 50	16. 20	23. 35	·1003					
10. 5	14. 20							
12. 10	21. 30							
22. 35	19. 45							
23. 35	24. 0							
Nov. 22		Nov. 22		Nov. 22				
0. 0	22. 22. 50	0. 15	·1008	0. 30	·01468	1	54·0	56·0
0. 30	23. 50	3. 20	·1002	3. 52	·01052	3	58·0	58·0
3. 40	21. 30	10. 25	·1012	5. 23	·01090	9	57·0	58·5
11. 35	18. 40	16. 0	·1008	12. 0:	·01025	21	58·0	59·0
22. 6	21. 30	23. 30	·0976	16. 10:	·01040			
23. 55	23. 20			20. 55:	·01072			
				23. 3	·01050			
				23. 58	·01075			
Nov. 23		Nov. 23		Nov. 23				
0. 30	22. 23. 40	1. 0	·0985	0. 30:	·01115	1	60·0	62·0
5. 30	21. 30	17. 30:	·1012	6. 40:	·01100	3	60·0	62·0
12. 20	19. 30	23. 30	·1000	13. 55	·01752	9	55·0	57·0
21. 30	20 30			23. 35	·01665	22	51·0	54·0
23 30	25. 20							
Nov. 24		Nov. 24		Nov. 24				
0. 30	22. 25. 50	0. 30	·1002	0. 0	·01650	8	54·0	57·0
6. 0	22. 30	3. 20	·1009	10. 10:	·01205	21	50·0	52·5
11. 20	20. 0	5. 12	·1000	23. 20:	·01770			
20. 20	21. 0	17. 0	·1008					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov. 24		Nov. 24						
h m	° ′ ″	h m		h m			°	°
21. 50	22. 19. 20	21. 35	·1000					
22. 45	22. 30	22. 30	·0983					
23. 20	21. 40	23. 32	·1002					
23. 40	23. 0							
Nov. 25		Nov. 25		Nov. 25				
0. 20	22. 23. 10	0. 45	·1004	0. 25	·01555	1	54·0	56·0
1. 20	22. 0	1. 22	·0983	4. 28	·01020	3	56·0	56·2
1. 50	28. 30	1. 50	·0983	5. 30:	·01042	9	54·0	55·0
3. 0	22. 0	5. 0	·0994	8. 30:	·01005	21	47·0	49·0
4. 25	21. 30	6. 57	·0981	17. 55	·01628			
11. 25	15. 10	10. 30	·1005	23. 55	·01575			
20. 0	23. 40	11. 40	·1018					
20. 50	20. 45	14. 0	·1004					
21. 45	23. 30	17. 0	·1013					
22. 30	20. 50	18. 50	·1006					
23. 30	22. 30	21. 4	·1014					
23. 55	22. 30	23. 42	·0983					
Nov. 26		Nov. 26		Nov. 26				
0. 38	22. 28. 0	1. 0	·0986	0. 45	·01565	1	50·0	53·0
1. 45	22. 30	2. 28	·0997	11. 26:	·00935	3	52·0	53·0
2. 20	26. 40	3. 25	·0955	23. 0:	·01290	9	50·0	53·0
3. 0	20. 0	3. 48	·0996	23. 58	·01273	21	46·0	48·0
3. 15	22. 0	4. 28	·0988					
3. 30	18. 50	5. 40	·1000					
4. 12	24. 0	8. 5	·0978					
7. 15	15. 40	9. 45	·0984					
7. 40	20. 30	15. 30	·1000					
9. 35	12. 40	18. 10	·1013					
11. 30	13. 30	22. 28	·0988					
11. 50	16. 10	23. 30	·0990					
11. 58	15. 0							
12. 10	21. 15							
12. 55	17. 45							
23. 55	21. 30							
Nov. 27		Nov. 27		Nov. 27				
0. 30	22. 22. 0	0. 30	·0990	1. 0	·01222	1	50·0	52·0
6. 0	18. 40	3. 0	·0982	3. 55	·00935	3	53·0	54·0
9. 25	19. 0	9. 32	·1005	7. 10:	·00905	9	50·0	53·0
9. 32	14. 30	12. 40	·1005	16. 15	·01552	21	42·0	43·0
10. 15	19. 30	13. 5	·1017	23. 58	·01500			
10. 30	15. 45	13. 55	·1009					
11. 30	18. 0	20. 0	·1021					
11. 40	21. 15	23. 42	·0985					
12. 5	18. 0							
12. 52	19. 30							
13. 5	21. 45							
13. 30	20. 0							
21. 12	18. 0							
23. 55	22. 30							

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov. 28		Nov. 28		Nov. 28				
h m	° ′ ″	h m		h m			°	°
0. 55	22. 22. 40	1. 0	·1000	1. 15	·01365	1	48 ·0	49 ·0
6. 5	19. 30	3. 50	·0997	3. 40	·00920	3	54 ·0	54 ·0
9. 30	19. 30	10. 20	·1016	4. 25:	·00942	9	48 ·5	52 ·0
10. 15	16. 40	10. 55	·1009	8. 0:	·00866	21	40 ·0	42 ·5
10. 50	19. 30	20. 35	·1025	16. 10	·01512			
22. 0	19. 30	23. 40	·0991	23. 58	01470			
23. 55	22. 30							
Nov. 29		Nov. 29		Nov. 29				
0. 36	22. 20. 50	0. 30	·0995	0. 30	·01428	1	48 ·0	50 ·0
1. 20	23. 50	8. 50	·1010	3. 18:	·00931	3	53 ·0	55 ·0
6. 10	18. 30	9. 35	·1005	5. 0:	·00930	9	48 ·0	49 ·0
10. 20	20. 0	14. 58	·1014	7. 55:	·00848	21	40 ·0	42 ·0
10. 40	17. 0	17. 48	·1031	15. 20	·01498			
14. 45	21. 0	23. 28	·0990	21. 0:	·01440			
17. 20	16. 0			23. 57	·01487			
19. 30	20. 50							
21. 25	18. 20							
23. 55	24. 0							
Nov. 30		Nov. 30		Nov. 30				
0. 30	22. 26. 20	0. 10	·0993	0. 15	·01462	1	44 ·0	45 ·0
3. 55	22. 30	0. 45	·0974	4. 38	·00942	3	49 ·0	49 ·0
4. 55	23. 0	1. 55	·0997	5. 14	·00960	9	47 ·5	50 ·0
6. 8	10. 30	3. 25	·0974	10. 40	·00845	22	43 ·0	46 ·0
7. 0	18. 40	6. 20	·0994	23. 35	·01305			
7. 40	17. 50	8. 30	·0987					
8. 20	13. 40	15. 45	·1008					
10. 40	18. 0	18. 45	·1021					
14. 10	20. 0	22. 45	·1001					
14. 35	18. 40	23. 32	·1005					
16. 0	25. 0							
16. 50	19. 0							
18. 50	19. 10							
20. 20	25. 0							
20. 50	19. 30							
21. 35	20. 0							
22. 10	22. 40							
22. 25	21. 0							
23. 30	21. 30							
Dec. 1		Dec. 1		Dec. 1				
0. 0	22. 21. 15	0. 0	·1007	0. 0	·01315	8	43 ·0	47 ·0
0. 50	24. 30	2. 10	·0998	4. 30:	·01400	21	44 ·0	46 ·0
6. 50	18. 0	3. 20	·1011	11. 0:	·01213			
7. 10	10. 30	4 55	·1008	23. 55	·01040			
8. 15	16 30	6. 0	·1015					
23. 0	20. 0	7. 6	·1008					
23. 45	24. 0	7. 45	·1021					
		8. 30	·1010					
		9. 50	·1018					
		21. 30	·1017					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
		Dec. 1						
h m	° ′ ″	h m		h m			°	°
		23. 0	·0994					
		23. 30	·1001					
Dec. 2		Dec. 2		Dec. 2				
1. 27	22. 24. 30	1. 30	·1000	1. 15	·00910	1	50 ·0	50 ·0
3. 0	20. 0	3. 0	·0983	5. 10:	·01029	3	53 ·0	54 ·0
8. 40	18. 30	7. 25	·1001	9. 5:	·00953	9	50 ·0	50 ·0
9. 6	11. 15	8. 48	·0999	23. 55	·01438	21	46 ·5	49 ·0
10. 27	17. 30	9. 10	·1010					
23. 30	20. 15	9. 45	·1001					
		20. 40	·1016					
		23. 30	·0990					
Dec. 3		Dec. 3		Dec. 3				
0. 30	22. 20. 30	0. 30	·0999	0. 30	·01428	1	48 ·0	50 ·0
8. 30	17. 0	1. 25	·1005	9. 48:	·01002	3	48 ·5	51 ·0
9. 22	14. 0	2. 18	·0988	16. 35	·01295	9	49 ·0	51 ·0
10. 3	15. 30	2. 48	·0996	23. 0	·01281	21	43 ·5	48 ·0
13. 35	17. 30	3. 30	·0988	23. 55	·01250			
13. 57	22. 30	9. 12	·1004					
14. 26	16. 0	9. 35	·1014					
16. 4	21. 15	10. 40	·1004					
23. 45	23. 30	13. 32	·1011					
		13. 58	·1039					
		14. 25	·1013					
		19. 15	·1028					
		22. 40	·1004					
Dec. 4		Dec. 4		Dec. 4				
0. 30	22. 22. 40	0. 37	·1004	0. 33	·01469	1	47 ·0	50 ·5
10. 20	15. 45	8. 0	·1012	4. 32	·01014	3	49 ·0	52 ·5
23. 50	20. 30	23. 35	·0993	8. 50:	·01010	9	53 ·0	55 ·0
				23. 24	·01030	21	51 ·5	55 ·5
Dec. 5		Dec. 5		Dec. 5				
1. 30	22. 20. 50	1. 43	·1010	2. 0	·01111	1	54 ·0	57 ·0
11. 20	18. 0	20. 25	·1016	4. 40	·01168	3	56 ·5	58 ·5
23. 45	20. 30	23. 30	·0992	5. 10	·01235	9	56 ·0	57 ·8
				6. 40	·01168	21	49 ·0	51 ·5
				17. 7	·01754			
				23. 0	·01678			
Dec. 6		Dec. 6		Dec. 6				
0. 0	22. 20. 40	0. 5	·0997	0. 0:	·01690	1	50 ·0	52 ·0
8. 58	15. 0	9. 44	·0994	2. 5	·01700	3	51 ·0	53 ·5
9. 18	16 50	18. 30	·1014	10. 30:	·01126	9	53 ·0	54 ·5
10. 25	13. 45	23. 30	·0996	23. 55	·01303	21	49 ·5	52 ·5
11. 38	17. 50							
11. 58	15. 15							
22. 53	18. 0							
23. 45	20. 30							

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Dec. 7	° ′ ″	Dec. 7		Dec. 7			°	°
h m		h m		h m				
0. 30	22. 22. 20	0. 45	·1007	0. 15	·01300	1	50·0	53·5
9. 38	18. 30	3. 15	·0996	7. 30:	·01011	3	51·0	54·5
21. 30	20. 30	22. 5	·1031	15. 10	·01616	9	51·5	53·0
23. 25	24. 0	23. 46	·1010	23. 45:	·01563	22	44·5	48·0
Dec. 8		Dec. 8		Dec. 8				
0. 0	22. 22. 30	0. 0	·1010	0. 0	·01570	21	43·0	44·0
1. 25	24. 30	19. 30	·1030	5. 0	·01595			
9. 15	19. 0	23. 30	·1010	8. 0:	·01545			
10. 37	13. 45			21. 56:	·01512			
13. 30	21. 0			23. 55	·01533			
21. 56	20. 10							
23. 30	22. 15							
Dec. 9		Dec. 9		Dec. 9				
1. 0	22. 21. 15	0. 30	·1016	1. 15	·01465	1	45·0	46·0
11. 15	16. 30	3. 30	·0994	5. 30	·00935	3	50·0	50·0
23. 30	20. 15	21. 30	·1026	11. 0:	·00858	9	47·0	47·5
		23. 40	·0992	23. 0	·01101	21	45·0	47·0
Dec. 10		Dec. 10		Dec. 10				
0. 30	22. 20. 50	0. 30	·0994	0. 15	·01035	1	49·0	50·0
11. 0:	17. 20	6. 50	·1007	1. 30	·00915	3	49·0	53·5
23. 40	21. 15	7. 26	·0996	7. 15:	·00911	9	47·5	50·0
		12. 0	·1020	20. 10	·01540	21	42·0	43·0
		19. 0	·1030	23. 0	·01538			
		23. 58	·0996					
Dec. 11		Dec. 11		Dec. 11				
0. 30	22. 22. 10	0. 30	·1011	0. 15	·01464	1	47·0	47·0
1. 35	20. 15	1. 30	·1023	4. 28	·00982	3	51·0	52·0
3. 25	24. 30	1. 48	·1003	18. 22	·00908	9	49·0	49·0
3. 45	19. 30	2. 38	·1014	23. 55	·01023	21	49·0	52·0
4. 43	23. 0	3. 36	·0990					
9. 28	18. 0	4. 6	·1007					
11. 50	14. 30	7. 0	·1019					
21. 30	18. 30	18. 40	·1020					
23. 45	21. 15	23. 30	·1000					
Dec. 12		Dec. 12		Dec. 12				
0. 40	22. 21. 45	0. 30	·1000	0. 35	·01050	1	54·0	55·0
7. 32	17. 10	2. 24	·0986	2. 32	·01150	3	59·0	60·0
7. 55	10. 30	5. 20	·1005	4. 24	·00992	9	55·0	56·0
9. 31	17. 50	7. 0	·0995	4. 45	·01026	21	48·5	52·5
11. 28	17. 15	11. 30	·1008	6. 40	·01010			
11. 45	14. 0	12. 3	·1017	15. 5	·01550			
12. 10	17. 10	12. 30	·1005	23. 30	·01545			
12. 30	15. 0	19. 15	·1018					
23. 50	20. 15	23. 10	·0997					
Dec. 13		Dec. 13		Dec. 13				
0. 30	22. 20. 15	1. 0	·1007	0. 20	·01673	1	54·0	52·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Dec. 13	° ′ ″	Dec. 13		Dec. 13			°	°
h m		h m		h m				
10. 8	22. 18. 0	3. 10	·0998	9. 0:	·01048	3	54·0	54·0
23. 30	21. 50	10. 0	·1005	23. 55	·01370	9	52·0	56·0
		21. 40	·1017			21	50·0	53·0
		23. 55	·0996					
Dec. 14		Dec. 14		Dec. 14				
0. 45	22. 22. 10	1. 10	·1005	1. 0	·01358	1	51·0	52·0
7. 8	15. 30	2. 10	·0996	5. 40	·01050	3	55·0	56·0
15 45	18. 10	10. 30	·1011	10. 30:	·01020	9	54·0	56·5
23. 30	21. 0	23. 10	·1016	19. 32	·01637	22	47·0	49·5
				23. 30	·01640			
Dec. 15		Dec. 15		Dec. 15				
0. 0	22. 21. 50	0. 0	·1015	0. 0	·01645	8	48·5	52·5
6. 50	19. 45	4. 0	·1029	13. 40	·01034	21	49·5	52·5
7. 33	16. 10	8. 55	·1007	18. 15:	·01025			
7. 50	19. 0	10. 28	·1023	23. 30	·01362			
8. 38	16. 10	12. 30	·1006					
11. 48	17. 15	13. 0	·1018					
12. 2	12. 0	14. 50	·1009					
12. 33	13. 30	18. 18	·1019					
13. 0	20. 15	23. 53	·0993					
13. 25	15. 45							
22. 0	19. 0							
23. 45	22. 30							
Dec. 16		Dec. 16		Dec. 16				
1. 15	22. 20. 30	1. 0	·1002	1. 0	·01426	1	52·0	52·0
3. 7	18. 40	14. 40	·1022	7. 20	·01050	3	54·0	55·0
14. 38	18. 45	15. 55	·1047	17. 10	·01508	9	51·0	52·5
	***	17. 12	·1016	17. 30	·01488	21	45·0	47·5
15. 22	22 10	17. 20	·1039	18. 4	·01542			
	***	17. 55	·1004	18. 38	·01518			
16. 30	5. 0	18. 40	·1019		***			
	***	18. 45	·1006	23. 55	·01602			
16. 58	22. 10. 30	19. 18	·1044					
	***	21. 19	·0983					
17. 48	21. 58. 30	21. 35	·0995					
	***	22. 13	·0987					
18. 5	22. 4. 30	22. 37	·0980					
	***	23. 20	·0972					
18. 28	2. 50	23. 40	·0985					
	***							
19. 52	29. 10							
	***							
21. 23	17. 0							
	***							
22. 48	29. 20							
	***							
23. 14	23. 0							
	***							
23. 40	27. 30							

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For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Dec. 17	° ′ ″	Dec. 17		Dec. 17				
h m		h m		h m				
0. 30	22. 25. 30	0. 30	·1000	0. 40	·01595	1	48 ·0	49 ·0
1. 38	22. 30	4. 28	·0983	7. 40	·01155	3	50 ·0	50 ·0
2. 0	25. 30	6. 0	·0996	8. 32	·01190	9	47 ·0	47 ·0
3. 40	23. 30	6. 40	·0985	9. 19	·01123	21	42 ·0	44 ·5
4. 18	37. 30	7. 2	·1008	17. 3	·01553			
5. 28	23. 0	7. 22	·0999	23. 55	·01518			
5. 52	19. 0	7. 36	·1007					
6. 45	24. 30	7. 48	·0987					
6. 55	13. 30	8. 18	·0984					
7. 42	23. 30	8. 36	·1044					
8. 27	3. 0	8. 44	·0986					
8. 41	22. 19. 0	8. 57	·1038					
8. 52	21. 58. 0	9. 42	·0983					
9. 8	22. 14. 0	11. 0	·1009					
9. 18	11. 45	20. 42	·1020					
9. 33	19. 30	22. 25	·0988					
9. 48	13. 30	23. 45	·1013					
12. 20	19. 10							
14. 47	15. 30							
23. 45	22. 0							
Dec. 18		Dec. 18		Dec. 18				
0. 30	22. 21. 30	0. 20	·1010	0. 30	·01518	1	43 ·0	43 ·0
6 30	20. 50	2. 6	·0997	6. 52	·00882	3	49 ·0	49 ·0
6. 55	10. 40	5. 0	·1000	9. 45:	·00870	9	47 ·0	48 ·5
7. 30	21. 0	6. 15	·1017	23. 55	·01290	21	43 ·0	44 ·0
15. 10	16. 20	6 50	·1003					
23. 30	20. 50	7. 20	·1019					
		7. 40	·1010					
		19 15	·1023					
		22. 10	·1002					
		23. 30	·1012					
Dec. 19		Dec. 19		Dec. 19				
0. 30	22. 21. 15	0. 30	·1010	1. 0	·01312	1	45 ·0	45 ·0
15. 20	17. 45	3. 45	·1009	10. 0	·00895	3	45 ·0	45 ·0
23. 55	22. 50	18. 15	·1031	20. 20	·01475	9	53 ·0	53 ·0
		23. 15	·1007	23. 37	·01492	21	49 ·0	50 ·0
Dec. 20		Dec. 20		Dec. 20				
0. 30	22. 21. 40	1. 0	·1022	0. 15	·01468	1	44 ·0	45 ·0
9. 27	15. 20	2. 30	·1004	4. 30	·00950	3	49 ·0	49 ·0
20. 52	20. 20	20. 0	·1041	8. 30:	·00865	9	44 ·0	48 ·0
23. 30	20. 40	22. 30	·1022	16. 38	·01478	21	37 ·2	38 ·0
		23. 30	·1027	23. 45	·01503			
Dec. 21		Dec. 21		Dec. 21				
0. 20	22. 21. 40	0. 30	·1029	0. 0	·01508	1	37 ·0	38 ·0
9. 50	15. 20	9. 30	·1026	2. 50:	·01513	3	41 0	42 ·0
23 15	21. 0	23. 20	·1022	9. 38	·00896	9	43 ·0	44 ·0
				23. 15	·01010	22	43 ·0	41 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Dec. 22	° ′ ″	Dec. 22		Dec. 22				
h m		h m		h m				
0. 0	22. 21. 0	0. 0	·1025	0. 0	·01040	11	43 ·0	44 ·5
7. 45	14. 30	7. 38	·1029	3. 15:	·01118	21	38 ·0	40 ·0
8. 38	15. 10	8. 20	·1040	7. 10	·00945			
8. 48	10. 40	9. 12	·1010	23. 55	·01508			
9. 8	16. 50	10. 42	·1026					
9. 20	14. 10	19. 5	·1042					
10. 26	19. 50	23. 35	·1012					
11. 25	10. 15							
11. 58	17. 10							
13. 55	15. 0							
16. 30	18. 45							
23. 45	24. 0							
Dec. 23		Dec. 23		Dec. 23				
0. 15	22. 22. 30	1. 0	·1022	0. 30	·01488	1	44 ·0	46 ·0
11. 15	14. 0	5. 30	·1024	4. 25	·01018	3	47 ·0	47 ·8
23. 30	18. 30	6. 10	·1002	10. 30	·00988	9	44 ·0	46 ·4
		6. 50	·1004	23. 0	·01435	21	40 ·0	42 ·0
		19. 27	·1039					
		23. 40	·1008					
Dec. 24		Dec. 24		Dec. 24				
0. 30	22. 19. 0	0. 30	·1019	2. 37	·01222	1	44 ·0	45 ·0
9 38	12. 30	1. 30	·1007	4. 15	·01015	3	48 ·0	50 ·0
16. 0:	15. 30	9. 25	·1018	8. 48	·00982	9	45 ·0	47 ·0
23. 0	20. 0	20. 10	·1031	18. 35:	·01168	22	43 ·0	45 ·0
		23. 22	·1015	23. 25	·01008			
Dec. 25		Dec. 25		Dec. 25				
1. 0	22. 23. 10	0. 0	·1014	0. 0	·00992	11	44 ·0	46 ·8
9. 0:	15. 45	18. 0	·1035	2. 25	·00970	21	42 ·0	45 ·5
23. 55	21. 15	22. 10	·1021	8. 45:	·01018			
				23. 15:	·01292			
Dec. 26		Dec. 26	(†)	Dec. 26				
1. 15	22. 24. 45	3. 50	·0994	1. 30	·01133	1		47 ·5
1. 58	28. 0	9. 33	·1007	3. 30	·01290	3	50 ·0	51 ·0
2. 10	23. 0	23. 0	·0987	7. 30:	·01233	9	48 ·5	51 ·5
2. 30	32. 15			16. 30:	·01255	21	48 ·0	52 ·0
3. 12	21. 20			23. 0	·01412			
12. 45:	15. 0							
22. 55	17. 20							
Dec. 27	(†)	Dec. 27		Dec. 27				
3. 40	22. 23. 9*	0. 0	·0976	0. 30	·01550	1	53 ·0	54 ·0
	(†)	1. 18	·0964	2. 48	·01500	3	55 ·0	57 ·0
5. 0	16. 0	2. 50	·0978	3. 55	·01400	9	53 ·5	54 ·5
5. 20	22. 50	5. 50	·0956	4. 48	·01592	21	47 ·0	51 ·0
9. 35	22. 16. 10	7. 50	·0988	5. 45	·01545			
10. 6	21. 53. 30	8. 35	·0967	9. 45	·01676			
11. 13	22. 19. 0	9. 5	·0975	10. 12	·01725			
12. 8	15. 30	9. 45	·0944	12. 5	·01667			

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Heat.	Thermometers. H. F.	Thermometers. V. F.
Dec. 27		Dec. 27		Dec. 27				
h m	° ′ ″	h m		h m			°	°
14. 28	22. 23. 40	10. 20	·0980	17. 5	·01752			
16. 20	21. 15	10. 42	·0967	23. 0:	·01676			
17. 54	27. 20	11. 50	·0980					
20. 54	19. 45	12. 15	·1003					
22. 20	22. 0	13. 12	·0970					
		18. 18	·1002					
		20. 30	·0982					
		21. 42	·0998					
		23. 37	·0977					
Dec. 28		Dec. 28		Dec. 28				
3. 30	22. 22. 50	0. 0	·0976	1. 30	·01703	1	48 ·5	50 ·0
9. 0	22. 10	9. 0	·0977	9. 15	·01273	3	50 ·0	52 ·0
9. 50	9. 0	9. 28	·0989	18. 8	·01640	9	49 ·0	52 ·5
10. 12	18. 10	10. 42	·0965	23. 15	·01600	22	44 ·0	46 ·0
10. 48	10. 10	19. 50	·0995					
12. 8	21. 0	23. 20	·0988					
23. 15	23. 0							
Dec. 29		Dec. 29		Dec. 29				
0. 30	22. 23. 30	0. 0	·0988	0. 0	·01604	10	49 ·0	50 ·0
7. 45	21. 30	4. 35	·0982	3. 5:	·01622	21	48 ·0	52 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Heat.	Thermometers. H. F.	Thermometers. V. F.
Dec. 29		Dec. 29		Dec. 29				
h m	° ′ ″	h m		h m			°	°
8. 23	22. 17. 40	13. 30	·0996	11. 26:	·01144			
9. 0	20. 40	23. 30	·0983	23. 55	·01178			
13. 7	21. 30							
13. 30	24. 30							
14. 0	21. 30							
15. 20	22. 0							
15. 40	25. 0							
16. 40	21. 0							
23. 55	23. 0							
Dec. 30		Dec. 30		Dec. 30				
1. 0	22. 24. 0	1. 0	·0983	1. 0	·01206	1	48 ·5	53 ·0
11. 42	20. 0	4. 45	·0979	10. 0	·01492	3	51 ·0	53 ·5
23. 55	23. 30	18. 25	·0996	18. 30:	·01358	9	53 ·0	55 ·0
		23. 30	·0976	23. 30	·01362	21	52 ·5	55 ·5
Dec. 31		Dec. 31		Dec. 31				
0. 30	22. 23. 45	0. 30	·0983	0. 30	·01313	1	54 ·0	56 ·5
10. 25	19. 0	4. 25	·0972	4. 30	·01400	3	55 ·5	57 ·0
22. 40	21. 0	18. 20	·0990	7. 15	·01518	9	56 ·0	58 ·0
		23. 55	·0976	23. 0	·01738	21	53 ·0	54 ·0

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ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1850.

The Dipping Needle is described, and the mode of using it is explained, in the *Magnetical and Meteorological Observations*, 1847, Introduction, page xliii, and in the corresponding parts of several preceding Volumes.

The needle A 2 was used till October 27, and again after November 10; and the Needle A 1 was used on October 28 and November 4.

Magnetic Dip, observed at the Royal Observatory, Greenwich, in the Year 1850.

Day and Approximate Hour, 1850.		Magnetic Dip.	Day and Approximate Hour, 1850.		Magnetic Dip.	Day and Approximate Hour, 1850.		Magnetic Dip.
	d h	° ′		d h	° ′		d h	° ′
January	3. 3	68. 45 ·25	May	9. 3	68. 53 ·50	September	19. 3	68. 39 ·75
	6. 21	68. 48 ·75		12. 21	68. 52 ·00		29. 21	68. 50 ·50
	10. 3	68. 46 ·00		16. 3	68. 55 ·00			
	13 21	68. 48 ·00		20. 21	68. 55 ·50	October	6. 21	68. 50 ·00
	16. 3	68. 48 ·25		23. 3	68. 56 ·75		7. 3	68. 30 ·50
	20. 21	68. 47 ·00		26. 21	68. 55 ·00		7. 9	68. 40 ·50
	24. 3	68. 47 ·50		30. 3	68. 56 ·25		13. 21	68. 27 ·75
	27. 21	68. 53 ·00					14. 3	68. 36 ·50
	31. 3	68. 49 ·75	June	2. 21	68. 56 ·50		14. 9	68. 40 ·50
				6. 3	68. 56 ·75		19. 21	68. 49 ·25
February	3. 21	68. 53 ·50		9. 21	68. 53 ·00		21. 3	68. 47 ·50
	7. 3	68. 51 ·50		13. 3	68. 52 ·00		21. 9	68. 49 ·00
	10. 21	68. 54 ·75		16. 21	68. 51 ·75		27. 21	68. (4 ·25)
	14. 3	68 50 ·75		20. 3	68. 46 ·00		28. 3	68. 41. 75
	17. 21	68. 54 ·75		23. 21	68. 43 ·00		28. 9	68. 46. 75
	21. 3	68. 53 ·75		27. 3	68. 43 ·00			
	24. 21	68. 56 ·50		30. 21	68. 47 ·50	November	4. 3	68. 27 ·50
	28. 3	68. 55 ·00					4. 9	68. 28 ·00
			July	7. 21	68. 47 ·00		10. 21	68. 40 ·00
March	3. 21	68. 48 ·50		11. 3	68. 52 ·50		11. 3	68. 37 ·50
	7. 3	68. 55 ·50		14. 21	68. 49 ·25		11. 9	68. 40 ·00
	10. 21	68. 53 ·00		21. 21	68. 51 ·50		24. 21	68. 36 ·50
	17. 21	68. 47 ·00		28. 21	68. 52 ·00		25. 3	68. 40 ·50
	21. 3	68. 54 ·00					25. 9	68. 40 ·50
	24. 21	68. 52 ·50	August	4. 21	68. 52 ·00			
	28. 3	68. 53 ·25		8. 3	68. 49 ·00			
	31. 21	68. 42 ·00		11. 21	68. 51 ·00	December	1. 21	68. 41 ·25
				15. 3	68. 49 ·00		2. 3	68. 32 ·00
April	4. 3	68. 54 ·75		18. 21	68. 51 ·50		2. 9	68. 37 ·50
	7. 21	68. 55 ·50		22. 3	68. 51 ·25		15. 21	68. 30 ·50
	11. 3	68. 49 ·00		25. 21	68. 33 ·75		16. 3	68. 42 ·00
	14 21	68. 50 ·50		29. 3	68. 38 ·75		16. 9	68. 33 ·75
	18. 3	68. 52 ·75					22. 21	68. 44 ·00
	21. 21	68. 52 ·25	September	1. 21	68. 36 ·50		23. 3	68. 42 ·50
	25. 3	68 51 ·00		5. 3	68. 28 ·00		23. 9	68. 37 ·75
	28. 21	68. 50 ·00		8. 21	68 34 ·50		29. 21	68. 38 ·75
				12. 3	68. 35 ·50		30. 3	68. 27 ·50
May	2. 3	68. 55 ·50		15. 21	68. 33 ·25		30. 9	68. 34 ·25

October 27d. 21h. The needle A 2 moved very sluggishly, and no further use has been made of the observations.

October 28d. The needle A 2 was sent to Mr. Barrow for repair; and needle A 1, which had had a new axle, was used on October 28 and November 4.

November 4d. 9h. The axle of needle A 1 was accidentally broken; it was sent to Mr. Barrow for repair.

November 10d. 21h. Needle A 2 was used, a new axle having been applied to it.

Mean Monthly Magnetic Dip, at the Royal Observatory, Greenwich, in the Year 1850.

1850, Month.	Mean Monthly Dip at 21h.	Number of Observations.	Mean Monthly Dip at 3h.	Number of Observations.	Mean Monthly Dip at 9h.	Number of Observations.
	° ′		° ′		° ′	
January	68. 49 ·25	4	68. 47 ·25	5		
February	68. 54 ·75	4	68. 52 ·75	4		
March	68. 48 ·50	5	68. 54 ·25	3		
April	68. 52 ·00	4	68. 51 ·75	4		
May	68. 54 ·25	3	68. 55 ·50	5		
June	68. 50 ·25	5	68. 49 ·50	4		
July	68. 50 ·00	4	68. 52 ·50	1		
August	68. 47 ·00	4	68. 47 ·00	4		
September	68. 38 ·75	4	68. 34 ·25	3		
October	68. 42 ·25	3	68. 38 ·75	4	68. 44 ·25	4
November	68. 38 ·25	2	68. 35 ·00	3	68. 36 ·00	3
December	68. 38 ·50	4	68. 36 ·00	4	68. 35 ·75	4
Mean	68. 47 ·4	46	68. 46 ·4	44		

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1850.

The Apparatus used for observation of the Deflexion of a Magnet is described, and the method of computing the results is explained, in the Greenwich *Magnetical and Meteorological Observations*, 1847, Introduction, page xlv, and in preceding Volumes. The magnet, marked $\frac{D}{XX}$ (the same which was used in preceding years), has been employed to produce the deflexion of another magnet, marked $\frac{H}{23}$ (of nearly the same dimensions): and the vibrations then observed are those of $\frac{D}{XX}$.

The following is the explanation of the notation used:—

m = the magnetic moment of the deflecting magnet $\frac{D}{XX}$.

X = the absolute measure of horizontal magnetic force.

K = the moment of inertia of $\frac{D}{XX}$ with its stirrup and pulley as suspended for vibration = 3·92866: the unit of length being the English foot, and the unit of weight being the English grain.

T = the time of vibration in seconds of mean solar time.

Then when the natural sine of the observed deflexion (the Deflecting Magnet being in the Lateral Position) is expressed by the formula

$$\frac{a}{(\text{distance})^3} + \frac{b}{(\text{distance})^5},$$

we have for the formula of computation

$$\frac{m}{X} = \tfrac{1}{2} a$$

$$m X = \frac{\pi^2 K}{T^2}$$

from which m and X are found.

The natural sine of the observed deflexion when the Deflecting Magnet is in the Axial Position is treated in the same manner as the former, for expressing it by the formula

$$\frac{a_1}{(\text{distance})^3} + \frac{b_1}{(\text{distance})^5}$$

but no further use is made of these deflexions.

For the determination of the Absolute Measure of Horizontal Force on those days on which Vibrations, unaccompanied by Deflexions, were observed: it is assumed that the quantity m (which is peculiar to the magnet) changes at a uniform rate from one observation of deflexion to the next; and the comparison of its interpolated value with the value of $m X$ given by the vibration determines the value of X.

Abstract of the Observations of Deflexion of a Magnet for Absolute Measure of Horizontal Force.

Month and Day, 1850.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distance of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibrations of Deflecting Magnet.	Number of Vibrations.	Temperature.
		ft. in.	°	° ′ ″			
March 5	Lateral	1. 0	44·9	12. 10. 30·05	5·088	100	42·5
	Axial			6. 32. 59·26			
	Lateral	1. 6		3. 35. 53·37	5·067	102	46·5
	Axial			1. 49. 32·93			
June 4	Lateral	1. 0	76·6	12. 5. 10·61	5·102	100	72·0
	Axial			6. 30. 29·57			
	Lateral	1. 6		3. 33. 28·43	5·105	100	77·5
	Axial			1. 48. 12·06			
October 1	Lateral	1. 0	57·0	12. 6. 23·78	5·120	100	59·6
	Axial			6. 32. 21·20			
	Lateral	1. 6		3. 32. 30·58	5·116	100	57·6
	Axial			1. 47. 59·91			
November 28	Lateral	1. 0	40·0	11. 52. 5·75	5·099	100	38·5
	Axial			6. 27. 1·84			
	Lateral	1. 6		3. 31. 52·46			
	Axial			1. 48. 28·02			
December 15	Lateral	1. 0	46·0	11. 55. 47·58	5·115	100	45·3
	Axial			6. 24. 52·39			
	Lateral	1. 6		3. 29. 47·15	5·120	100	46·2
	Axial			1. 47. 54·15			

Nov. 28. The suspension-skein broke before a second set of vibrations could be taken, and the adopted time of vibration in the calculation of the Absolute Measure of Horizontal Force is that found before the deflexions were taken.

Computation of the Values of Absolute Measure of Horizontal Force.

Month and Day, 1850.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a_1.	Apparent Value of b_1.	Adopted Value of a, assuming the Mean Value of b as applicable to all.	Log. $\frac{1}{2}a = \text{Log.}\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. mX.	Value of X.	Value of m.
March 5	+0·2125	−0·0016	−0·0006	+0·1023	+0·0118	+0·2116	9·02448	s 5·078	0·17716	3·7700	0·3989
June 4	+0·2095	−0·0001		+0·1005	+0·0129	+0·2099	9·02095	5·104	0·17280	3·7664	0·3953
October 1	+0·2075	+0·0022		+0·0997	+0·0142	+0·2099	9·02107	5·118	0·17034	3·7553	0·3942
November 28	+0·2096	−0·0040		+0·1018	+0·0106	+0·2066	9·01421	5·099	0·17356	3·7991	0·3926
December 15	+0·2055	+0·0007		+0·1013	+0·0105	+0·2066	9·01418	5·118	0·17034	3·7852	0·3911

Values of Absolute Measure of Horizontal Force, from Observations of Vibration of the Deflecting Magnet $\frac{D}{XX}$, unaccompanied by Deflexions.

Month and Day, 1850.	Adopted time of Vibration.	Temperature.	Log. mX.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.
March 12	s 5·098	50°·0	0·17374	0·3986	3·7428
April 8	5·105	58·2	0·17254	0·3976	3·7419
29	5·094	53·0	0·17442	0·3967	3·7667
May 29	5·099	66·0	0·17356	0·3955	3·7706
September 2	5·112	70·5	0·17136	0·3945	3·7611
October 21	5·120	54·2	0·17000	0·3936	3·7579
November 6	5·116	58·2	0·17068	0·3932	3·7677
December 13	5·119	48·8	0·17016	0·3913	3·7814
30	5·089	49·0	0·17528	0·3896	3·8429

The number of observed vibrations employed in each determination was 100.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1850.

The day in the first column of the following tables is to be understood, generally, as defined in civil reckoning.

The barometer is described in the *Greenwich Magnetical and Meteorological Observations*, 1847, Introduction, page xlviii, and in the corresponding parts of several preceding volumes. The barometer has been read at 21^h, 0^h, 3^h, 9^h (Astronomical), on every day, excepting on Sundays and on Good Friday and Christmas Day, on which days a smaller number of observations has been taken. Every reading has been reduced to the reading which would have been obtained at the temperature 32° of the mercury and scale, by application of the correction given in table II (pages 82 to 87) of the Report of the Committee of Physics of the Royal Society. The mean of the reduced readings has then been taken for each civil day, and finally converted into mean daily reading by application of the correction inferred from Mr. Glaisher's paper in the *Philosophical Transactions*, 1848, part I.

The positions of all the thermometers are described in the Introduction, 1847, page lxix.

The thermometers used for determining the "highest and lowest readings of the dry thermometers" are self-registering thermometers, as described in the Introduction, 1847, page lxvii; and their index-errors have been found weekly, in the manner there explained. The readings given in these tables are corrected for the index-errors.

The dry-bulb and wet-bulb thermometers are described in the Introduction, 1847, page xlix; their scales have been verified from time to time, in the manner there described.

The mean daily reading of the dry thermometer is inferred from observations taken at the same hours as the observations of the barometer; the mean of these is corrected by a quantity given in the *Phil. Trans.*, 1848, part I.

The dew-point has been exclusively inferred from simultaneous observations of the dry-bulb and wet-bulb thermometers. In order to find the difference between the dry-bulb reading and the dew-point, the difference between the dry-bulb and the wet-bulb readings has been multiplied by a factor taken from the following table (deduced by Mr. Glaisher from comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, to the end of the year 1844).

TABLE OF FACTORS, BY WHICH THE DIFFERENCE OF READINGS OF THE DRY-BULB AND WET-BULB THERMOMETERS IS TO BE MULTIPLIED, IN ORDER TO PRODUCE THE DIFFERENCE BETWEEN THE READINGS OF THE DRY-BULB AND DEW-POINT THERMOMETERS.

Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.
°		°		°		°		°		°	
20	8·5	32	3·1	44	2·3	56	1·9	68	1·6	80	1·5
21	8·5	33	2·8	45	2·3	57	1·9	69	1·5	81	1·5
22	8·5	34	2·6	46	2·3	58	1·9	70	1·5	82	1·5
23	8·5	35	2·6	47	2·2	59	1·8	71	1·5	83	1·5
24	7·3	36	2·6	48	2·2	60	1·8	72	1·5	84	1·5
25	6·4	37	2·5	49	2·2	61	1·8	73	1·5	85	1·5
26	6·1	38	2·5	50	2·1	62	1·7	74	1·5	86	1·5
27	6·1	39	2·5	51	2·1	63	1·7	75	1·5	87	1·5
28	5·7	40	2·4	52	2·0	64	1·7	76	1·5	88	1·5
29	5·0	41	2·4	53	2·0	65	1·6	77	1·5	89	1·5
30	4·6	42	2·4	54	2·0	66	1·6	78	1·5	90	1·5
31	3·7	43	2·4	55	2·0	67	1·6	79	1·5		

Tables nearly equivalent to this have been used in the reduction of the observations with the wet-bulb thermometer in the years following 1844.

The dew-point being thus found for each individual observation, the mean is taken for each day (as defined from midnight to midnight), and this mean is corrected by application of the elements in the *Phil. Trans.*, 1848, part I.

The thermometers exhibiting the highest temperature in the sunshine, the lowest temperature on the grass, and the highest and lowest temperatures of the water of the Thames, are described in the Introduction, 1847, pages lxix and lxxi. They are occasionally verified. That for the highest temperature in the sunshine was out of order from January 6 to May 4; May 26, 27, and 28; June 2, 9, 12, and 28; August 4, 8, 9, 10, 11, and 20; September 1; September 8 to October 20; November 3, 5, 8, 9, 23 to 30; December 8, 13 to 21; and those for the temperature of the Thames water from May 1 to May 7.

The mean daily value of the difference between dew-point temperature and air temperature is the difference between the two numbers in the sixth and seventh columns. The Greatest and Least are the greatest and least among the

differences corresponding to the times of observation in the civil day, and they probably differ little from the absolute maxima and minima.

The difference between the mean temperature for the day and the mean for the same day of the year on an average of seven years, is found by comparison with a table of results deduced by Mr. Glaisher from seven years' observations, made in the Magnetic and Meteorological Department of the Royal Observatory in nearly the same locality as that in which the present observations are made, which are printed in the *Greenwich Magnetical and Meteorological Observations*. For all ordinary week days, the mean adopted in these results was the mean of the twelve readings made at equidistant intervals of two hours. For Sundays and exceptional days the maximum and minimum readings were taken, and their mean was corrected for a difference exhibited in the Introductions to the various volumes of the *Magnetical and Meteorological Observations*.

Osler's Anemometer is described in the Introduction, 1847, page lxxi. Little explanation of the results deduced from it appears to be necessary. In the columns of direction, the letter C is occasionally used for Calm. It may be understood generally that the greatest pressure occurred in gusts of short duration.

Whewell's Anemometer is described in the Introduction, 1847, page lxxii. The amount of movement of air here exhibited is to be understood as from 22^h to 22^h (10^h A.M. to 10^h A.M.), the numbers being placed opposite to the day preceding the civil day on which the instrument is read. This instrument was away for repair from March 30 to April 7.

The register of rain is read at 9^h P.M. from Crosley's Rain-gauge, described in page lxxv of the Introduction, 1847. If, however, there appears to be any doubt as to the correctness of the results, reference is made to the Rain-gauge No. 2, described in the same place.

For understanding the divisions of time under the heads of Electricity and Weather, the following remarks are necessary:—The day is divided by columns into two parts (from midnight to noon, and from noon to midnight), and each of these parts is roughly subdivided into two or three parts by colons (:). Thus, when there is a single colon in the first column, it denotes that the remarks before it apply (roughly) to the interval from midnight to 6 A.M., and those following it to the interval from 6 A.M. to noon. When there are two colons in the first column, it is to be understood that the twelve hours are divided into three nearly equal parts of four hours each. And similarly for the second column.

The Electrical Apparatus is described in page lxxvii of the Introduction, 1847. The following is the explanation of the notation employed, it being premised that the quality of the Electricity is always to be supposed positive when no indication of quality is given:

g cur. denotes *galvanic currents*	N denotes *negative*	s denotes *strong*	v denotes *variable*
m .. *moderate*	P .. *positive*	sp .. *sparks*	w .. *weak*

The duplication of the letter denotes an intensity of the modification described; thus s s is very strong, v v very variable.

The Clouds and Weather are described generally by Howard's Nomenclature; the figure denotes the proportion of sky covered by clouds, the whole sky being represented by 10. The notation is as follows:

a denotes *aurora borealis*	hl denotes *hail*	h-r denotes *heavy rain*	h-sqs denotes *heavy squalls*
ci .. *cirrus*	so-ha .. *solar halo*	c-h-r .. *continued heavy rain*	fr-h-sqs .. *frequent heavy squalls*
ci-cu .. *cirro-cumulus*	l .. *lightning*	m-r .. *misty rain*	sc .. *scud*
ci-s .. *cirro-stratus*	li-cl .. *light clouds*	fr-m-r .. *frequent misty rain*	li-sc .. *light scud*
cu .. *cumulus*	lu-co .. *lunar corona*	sl-r .. *slight rain*	sl .. *sleet*
cu-s .. *cumulo-stratus*	lu-ha .. *lunar halo*	h-sh .. *heavy showers*	sn .. *snow*
d .. *dew*	m .. *meteor*	fr-shs .. *frequent showers*	sl-sn .. *slight snow*
h-d .. *heavy dew*	ms .. *meteors*	fr-h-shs .. *frequent heavy showers*	s .. *stratus*
f .. *fog*	n .. *nimbus*	li-shs .. *light showers*	t .. *thunder*
th-f .. *thick fog*	r .. *rain*	oc-shs .. *occasional showers*	t-s .. *thunder storm*
fr .. *frost*	th-r .. *thin rain*	sq .. *squall*	w .. *wind*
h-fr .. *hoar frost*	oc-r .. *occasional rain*	sqs .. *squalls*	st-w .. *strong wind*
h .. *haze*	fr-r .. *frozen rain*	fr-sqs .. *frequent squalls*	

Observations of special character are reserved for the pages following the tabular arrangement.

MONTH and DAY, 1850.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	From 4 Diffs. Greatest.	From 4 Diffs. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 7 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Hrs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Jan. 1	..	30·137	35·0	26·9	31·3	27·9	38·5	22·8	33·4	29·9	3·4	5·3	0·0	− 7·0	WSW	W	0·0	0·0	0·0	34	0·00
2	..	30·132	37·0	31·1	33·6	29·8	38·5	31·0	32·8	30·1	3·8	6·2	2·8	− 4·0	W	W by S	0·0	0·0	0·0	10	0·00
3	..	30·027	41·3	33·5	37·6	35·3	43·0	34·0	33·4	30·4	2·3	3·5	1·7	+ 0·7	W by S; S	S; SW	0·0	0·0	0·0	155	0·00
4	In Equator	29·492	47·0	38·8	43·4	39·0	50·0	25·0	33·8	31·1	4·4	7·7	1·6	+ 7·0	SW	SW	4·8	0·0	0·3	180	0·00
5	Last Qr.	29·326	40·0	29·7	34·0	28·1	45·0	21·0	34·3	31·7	5·9	8·8	4·2	− 2·2	SW	SW	0·0	0·0	0·0	50	0·00
6	..	29·416	38·0	26·8	31·0	21·3	..	15·0	34·3	31·4	9·7	5·5	4·3	− 4·8	NE	N	0·0	0·0	0·0	130	0·00
7	..	29·875	35·7	24·6	30·1	23·5	..	12·8	33·4	30·7	6·6	7·5	5·1	− 5·5	N	NNW	0·0	0·0	0·0	24	0·00
8	..	30·210	35·0	22·0	30·3	25·5	..	30·0	33·0	30·1	4·8	8·3	2·4	− 5·2	WSW; N	N	0·0	0·0	0·0	52	0·00
9	..	30·042	33·7	30·7	31·8	28·9	..	30·5	32·8	29·9	2·9	3·4	2·6	− 3·7	N	NE	0·0	0·0	0·0	46	0·00
10	..	29·738	32·4	30·5	31·0	29·4	..	28·0	32·8	30·1	1·6	2·8	1·2	− 4·6	NNE	NE; SE	0·0	0·0	0·0	33	0·00
11	..	29·660	31·0	28·5	29·2	23·2	..	26·8	32·4	30·1	6·0	9·2	4·5	− 6·5	SE	ESE	0·0	0·0	0·0	50	0·00
12	Apogee. Greatest Dec. S.	29·807	31·2	27·6	28·7	24·2	..	23·0	32·3	30·1	4·5	6·7	4·0	− 7·1	ESE	NE	0·0	0·0	0·0	40	0·00
13	New	29·847	31·0	23·6	28·3	25·9	..	20·0	32·2	29·7	2·4	..	..	− 7·4	NE	NE	0·0	0·0	0·0	140	0·00
14	..	29·581	30·2	26·0	28·0	21·2	..	26·5	31·6	29·4	6·8	9·1	4·5	− 8·2	NE	NE	5·0	0·0	2·5	240	0·00
15	..	29·284	26·9	25·9	26·1	22·9	..	26·0	31·3	29·4	3·2	5·5	2·4	−10·9	NE	NE	3·0	0·0	1·0	100	0·00
16	..	29·379	33·0	25·7	29·7	26·9	..	29·0	31·0	29·4	2·8	5·1	1·9	− 6·9	N	N	0·0	0·0	0·0	100	0·05
17	..	29·745	35·4	30·6	33·1	29·0	..	25·3	31·3	29·7	4·1	6·8	3·1	− 3·9	N	N	0·0	0·0	0·0	70	0·00
18	..	29·744	36·8	29·4	32·7	30·7	..	32·0	31·8	29·9	2·0	3·6	1·8	− 4·6	N; SW	SSE	0·0	0·0	0·0	85	0·18
19	In Equator	29·440	45·7	34·2	40·6	37·7	..	23·5	32·4	30·1	2·9	4·4	2·5	+ 3·1	SW; W	W	3·0	0·0	0·2	65	0·31
20	..	30·031	34·4	26·7	28·8	20·8	..	27·0	32·8	30·8	8·0	8·0	4·6	− 8·7	NE	NE; SE	1·0	0·0	0·0	55	0·00
21	First Qr.	30·227	30·9	27·4	28·5	23·6	..	27·7	33·0	31·0	4·9	6·2	4·5	− 9·1	SE	E	0·0	0·0	0·0	30	0·00
22	..	30·381	35·4	28·3	32·2	29·5	..	30·8	33·4	31·4	2·7	4·1	2·2	− 5·3	E; SE	SW	0·0	0·0	0·0	65	0·12
23	..	30·337	38·7	33·7	36·4	34·1	..	26·3	33·4	31·4	2·3	3·5	1·0	− 1·1	SW	WSW	0·0	0·0	0·0	95	0·00
24	..	30·187	37·2	31·9	34·0	33·2	..	30·0	33·6	31·6	0·8	2·6	0·3	− 3·5	WSW	SW	0·0	0·0	0·0	150	0·00
25	..	29·786	53·1	32·2	45·4	41·0	..	40·5	35·8	33·8	4·4	7·2	2·9	+ 8·2	SW	SW	4·8	0·0	1·3	275	0·00
26	Greatest Declination N.	29·404	51·0	31·5	43·5	38·4	..	15·0	35·8	32·9	5·1	7·5	1·3	+ 6·3	SW	WSW; N	7·0	1·0	4·0	235	0·20
27	Perigee	30·352	40·0	26·0	33·2	26·4	..	22·8	36·0	32·9	6·8	12·8	2·3	− 3·7	N	S	0·0	0·0	0·0	190	0·00
28	Full	29·885	49·6	33·2	41·4	37·8	..	34·0	37·0	33·4	3·6	5·7	3·3	+ 4·7	SSW	SW	6·0	0·5	1·0	230	0·01
29	..	29·890	49·5	38·4	43·8	39·4	..	32·0	37·3	33·7	4·4	6·8	1·6	+ 7·5	N	NE; E	0·0	0·0	0·0	110	0·16
30	..	30·159	40·4	28·6	35·3	28·8	..	22·0	37·8	34·4	6·5	9·5	4·9	− 0·6	ENE	E	0·0	0·0	0·0	40	0·09
31	..	29·996	41·2	30·1	36·6	31·6	..	32·0	39·0	34·7	5·0	7·3	1·7	+ 2·1	SE	S	3·3	0·0	1·0	120	0·05
Feb. 1	In Equator	29·647	56·4	41·0	50·8	47·6	..	43·0	40·8	36·4	3·2	5·6	2·2	+15·5	SW	SW	6·0	0·0	1·3	275	0·24
2	..	29·669	58·0	49·7	52·2	49·3	..	39·0	42·3	38·4	2·9	5·2	2·2	+17·5	W	SW	9·0	1·0	2·8	390	0·01
3	..	29·742	54·0	43·5	47·2	40·8	..	30·0	42·8	39·9	6·4	6·6	6·4	+12·9	WSW	WSW	4·8	0·0	2·0	190	0·00
4	Last Qr.	29·793	49·4	36·0	42·3	37·7	..	31·8	43·0	40·4	4·6	8·1	2·0	+ 8·3	SW; SSW	SW; S	2·4	0·0	0·4	120	0·00
5	..	29·342	48·5	40·4	43·7	38·2	..	34·8	43·3	40·7	5·5	11·0	2·9	+10·1	S	SW	19·0	0·0	3·8	more than 390	0·20
6	..	28·943	49·1	37·6	42·2	31·6	..	26·0	42·6	39·7	10·6	13·3	7·3	+ 8·9	SSW; W	W	25·0	1·0	7·2	228	0·00
7	..	29·402	46·4	35·4	40·4	34·4	..	26·5	41·8	38·1	6·0	7·4	6·5	+ 7·9	W	W	6·0	0·0	2·2	265	0·00
8	Apogee. Greatest Dec. S.	29·564	52·9	39·0	47·3	43·3	..	44·0	41·8	38·4	4·0	7·8	1·6	+14·7	SW	WSW	5·0	0·0	2·2	295	0·03
9	..	29·416	51·5	38·0	47·5	42·4	..	30·5	42·0	38·4	5·1	7·9	3·4	+14·5	SW	SW; WSW	9·6	0·0	4·6	275	0·09
10	..	29·919	47·2	37·5	42·2	34·3	..	29·0	41·8	38·4	7·9	9·7	5·5	+ 8·9	WSW	WSW	4·8	0·0	1·6	115	0·00
11	..	29·523	48·0	37·9	42·5	38·7	..	29·5	40·8	38·1	3·8	7·4	3·2	+ 8·5	SSW	SSW; WSW	9·6	0·0	1·0	305	0·10
12	New	29·193	46·2	35·7	39·8	34·0	..	22·8	40·3	37·4	5·8	11·3	2·9	+ 4·9	SW	SW	7·2	0·0	1·2	150	0·06
13	..	29·917	41·4	30·5	35·4	25·9	..	19·0	39·8	36·7	9·5	14·6	8·8	− 0·5	W	NNW; SW	4·8	0·0	1·2	115	0·00
14	..	29·867	50·8	30·0	42·3	40·4	..	38·8	39·8	36·4	1·9	3·3	2·1	+ 5·4	S	SSW; SW	7·2	0·0	1·4	225	0·15
15	In Equator	29·880	58·2	51·2	53·0	49·8	..	41·0	40·8	37·4	3·2	5·2	2·1	+15·2	SW	SW	4·8	0·0	1·6	275	0·05
16	..	29·970	56·8	39·4	45·6	34·8	..	29·0	42·6	38·9	10·8	15·8	7·0	+ 7·2	SW; WNW	NW	9·6	0·0	3·0	260	0·17
17	..	30·139	51·2	37·7	45·9	39·7	..	40·8	43·0	39·7	6·2	7·5	4·6	+ 6·9	SW	WSW	4·6	0·0	1·7	200	0·00
18	..	30·061	54·2	45·2	48·8	44·0	..	40·0	43·6	40·4	4·8	9·2	1·6	+ 9·5	WSW	SW	3·6	0·0	1·0	175	0·00
19	First Qr.	29·962	52·4	44·5	47·8	44·3	..	43·8	44·8	41·1	3·5	7·6	2·9	+ 8·3	SW	SW	3·6	0·0	1·2	165	0·00
20	..	29·950	51·0	46·0	48·0	45·6	..	31·0	45·6	41·9	2·4	7·0	1·3	+ 8·4	SW	SW; NW	3·6	0·0	0·5	152	0·19
21	..	30·035	53·0	36·2	46·1	39·9	..	38·5	45·4	42·1	6·2	7·2	6·2	+ 6·5	WSW	WSW	7·2	0·0	3·0	128	0·00
22	Greatest Declination N.	30·178	56·4	44·3	49·1	41·0	..	30·0	45·3	41·9	8·1	11·2	4·1	+ 9·4	WSW	NW; W	6·0	0·0	1·0	70	0·00
23	..	30·165	50·5	39·0	45·6	38·6	..	38·0	45·3	42·4	7·0	10·5	5·1	+ 5·8	Calm	SW	0·0	0·0	0·0	25	0·00
24	Perigee	30·188	41·9	38·7	40·0	33·2	..	26·5	44·8	42·1	6·8	..	..	+ 0·1	Calm	Calm	0·0	0·0	0·0	20	0·00
25	..	30·262	48·6	36·2	42·5	38·2	..	37·0	44·3	41·1	4·3	6·8	3·1	+ 2·4	Calm	E	0·0	0·0	0·0	10	0·00
26	Full	30·260	50·0	39·2	44·3	37·1	..	27·0	44·4	41·7	7·2	12·0	3·1	+ 4·6	Calm	SW	0·0	0·0	0·0	25	0·00
27	..	30·124	53·2	31·5	41·7	36·9	..	23·0	43·8	40·9	4·8	11·2	0·0	+ 3·5	SW	SE	0·0	0·0	0·0	35	0·00
28	In Equator	30·054	40·8	34·2	37·4	36·6	..	38·0	44·0	41·4	0·8	2·3	1·5	− 2·1	SE	E; N	0·0	0·0	0·0	30	0·00

MONTH and DAY, 1850.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Jan. 1	o	o : w	10, ci.-s, sc, h	10, ci.-s, sc, h : o
2	v	v	10, ci.-s, sc	10, ci.-s, sc
3	o : m	o	10, ci.-s, sc	10, ci.-s, sc, : 10, ci.-s, sc, th.-r
4	o	o	10, ci.-s, sc	10, ci.-s, sc, th.-r : o
5	o	o	o	o
6	o	o	o	o
7	o : s	o : s	o : o : 10	5 : o
8	o	o	o, th.-f	10, ci.-s, sc
9	o	s : o : o	10, ci.-s, sc	10, ci.-s, sc : fr-r
10	s	s	10, ci.-s, sc, fr-r	10, ci.-s, sc, fr-r
11	v	v	10, ci.-s, sc	10, ci.-s, sc
12	o	o	10, ci.-s, sn	10, ci.-s
13	o	o	10, ci.-s, sc	10, ci.-s, sc : o : 10, ci.-s, sc
14	o	o	10, ci.-s, sc	10, ci.-s, sc
15	o	o	10, ci.-s, sc	10, ci.-s, sc, sn : 10, ci.-s, sc
16	o	o	10, ci.-s, sc, sn	10, ci.-s, sc
17	o	o	10, ci.-s, sc	10, ci.-s, sc
18	o : o : s	s : o : o	10, ci.-s, sc, f	10, ci.-s, sc, sn
19	o	o	10, ci.-s, sc, m.-r	10, ci.-s, sc, m.-r
20	o	o	10	10
21	o	o	10	10
22	o	o	10	10 : 10, th.-r
23	o	o	10	10 : o
24	o	o	10, th.-f	10
25	o	o	10, sc	3, sc : 10, sc, th.-r
26	o	o	10, h.-r : 2	10, sh.-r : 10 : 10, sh.-r
27	o	w : o	o	o : o : 10
○ 28	o	o	10, fr.-m.-r	10, fr.-m.-r
29	o	m	10	10 : 10, r
30	v	v	10 : 3, so.-ha	3 : 3 : 3, d
31	m	o	10	10 : 10, r
Feb. 1	o	o	10, fr.-m.-r	10, fr.-m.-r : 10, h.-r : 10
2	o	o	10, fr.-m.-r	10, fr.-m.-r : 10, h.-w
3	o	o	10	o
4	o	o	o	7
5	o	o	10, s.-w	10, s.-w
6	o	o	7, s.-w : 7, s.-w : 10, s.-w	10, s.-w : o, s.-w
7	o	o	3	7 : 3
8	o	o	10, r	10 : 8, r
9	o	o	7 : 10	10, h.-r : o
10	o	o	o	o
11	o	o	10, fr.-h.-shs	10, fr.-h.-shs
12	o	o	10, r	7, r : o
13	o	o	o	o
14	o	o	10, r	10
15	o	o	10	10, m.-r
16	o	o	o : o : 8	o
17	o	o	5	10
18	o	o	10	o : 10
19	o	o	10	10
20	o	o	10, h.-r	10 : o, lu.-ha
21	o	o	10	10 : 10, lu.-ha : 8
22	o	o	10	10 : o
23	o	m : o : o	10	10 : 10, lu.-ha
24	o	o	10	10
25	o	m : o : o	10	10
○ 26	o	s : o : o	10	10 : 10 : o
27	v	v	th.-f : th.-f : 10	5
28	o	s	th.-f : th.-f : 10	10

MONTH and DAY, 1850.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	From 4 Diffs. Greatest.	From 4 Diffs. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 7 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Wind as deduced from Anemometers. Osler's. General Direction. P. M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Mar. 1	..	30·188	53·8	37·6	45·7	40·9	..	40·0	44·3	41·4	4·8	8·6	3·5	+ 6·3	NW	SW	0·0	0·0	0·0	105	0·00
2	..	30·097	51·4	46·2	47·7	45·1	..	37·0	45·3	41·9	2·6	5·5	1·4	+ 8·4	SW	SW	3·0	0·0	1·3	190	0·00
3	..	29·617	54·0	43·0	47·0	42·2	..	30·0	45·8	42·1	4·8	5·1	4·6	+ 7·8	SSE	SW	4·0	0·0	1·0	75	0·00
4	..	30·021	45·8	33·8	38·5	33·5	..	17·8	45·4	41·9	5·0	10·3	4·9	— 0·5	N	N	6·0	0·0	1·0	125	0·04
5	Last Qr.	30·423	49·7	27·2	38·4	30·4	..	29·0	44·6	41·9	8·0	12·2	5·8	— 0·4	Calm	SW	0·0	0·0	0·0	70	0·00
6	..	30·442	56·9	34·6	44·9	38·7	..	29·3	44·8	41·7	6·2	13·5	1·3	+ 6·1	SW	W	0·0	0·0	0·0	30	0·00
7	Greatest Declination S.	30·395	50·2	36·4	42·8	42·6	..	33·8	44·4	41·7	0·2	4·2	0·0	+ 4·0	SW	Calm	0·0	0·0	0·0	45	0·00
8	Apogee	30·267	45·7	41·5	41·6	40·9	..	40·0	44·3	41·7	0·7	3·9	1·7	+ 2·5	N	NE	0·0	0·0	0·0	30	0·00
9	..	30·085	52·2	39·0	43·3	41·1	..	25·0	45·2	42·1	2·2	6·5	1·7	+ 3·8	SE	Calm	0·0	0·0	0·0	5	0·00
10	..	30·134	52·9	32·2	44·4	36·3	..	20·0	44·8	41·9	8·1	..	..	+ 4·4	Calm	NNW	0·0	0·0	0·0	75	0·00
11	..	30·317	50·0	32·6	40·6	32·2	..	18·0	44·6	41·7	8·4	13·1	6·5	+ 0·1	N	NE	0·0	0·0	0·0	55	0·00
12	..	30·438	51·7	28·5	41·2	29·9	..	21·7	43·8	40·7	11·3	17·2	8·8	+ 0·1	NE	NE	0·0	0·0	0·0	55	0·00
13	New	30·372	55·9	31·5	44·4	35·0	..	22·0	44·0	40·7	9·4	15·2	5·3	+ 2·9	WSW	NW; N	0·0	0·0	0·0	40	0·00
14	..	30·360	47·8	34·9	41·9	37·6	..	36·8	44·3	41·4	4·3	6·2	5·5	— 0·1	N	NE	0·0	0·0	0·0	70	0·00
15	In Equator	30·317	46·4	33·4	37·7	32·4	..	16·7	43·8	40·7	5·3	9·1	5·5	— 4·6	NE	NE; E	0·0	0·0	0·0	50	0·00
16	..	30·108	48·4	24·2	36·4	32·2	..	19·0	43·3	39·9	4·2	10·8	5·7	— 6·2	E; SW	NNE	3·0	0·0	0·3	90	0·00
17	..	30·201	40·2	26·0	31·4	25·8	..	13·0	42·8	39·7	5·6	..	..	—11·4	NE	E	2·4	0·0	0·3	85	0·00
18	..	30·150	45·4	24·2	35·3	24·1	..	22·0	42·3	38·9	11·2	19·0	6·2	— 7·8	E passing S to NW	NE	0·0	0·0	0·0	40	0·00
19	..	29·999	51·8	32·9	41·8	36·8	..	30·0	41·8	38·4	5·0	8·5	5·3	— 1·5	Calm	N	2·4	0·0	0·2	55	0·02
20	..	30·066	46·0	37·2	40·5	27·1	..	30·0	41·8	38·4	13·4	10·8	6·7	— 3·0	N	N	0·0	0·0	0·0	85	0·00
21	Greatest Dec. N. First Quarter.	30·064	44·9	35·7	38·9	30·9	..	16·0	41·6	38·4	8·0	12·2	6·0	— 4·7	W; N	N	3·6	0·0	0·4	80	0·00
22	..	29·921	50·0	27·2	39·9	31·5	..	33·0	41·3	38·4	8·4	14·7	6·0	— 3·8	Calm	SW	4·8	0·0	0·5	165	0·01
23	..	29·394	45·4	32·6	36·5	26·2	..	22·0	41·2	38·1	10·3	17·0	2·3	— 7·4	SW; NW	NNW	1·0	0·0	0·4	250	0·09
24	Perigee	29·485	41·2	28·8	34·4	30·2	..	22·0	40·3	37·7	4·2	5·9	1·6	— 9·7	NW	NNW	6·0	0·0	2·3	90	0·00
25	..	29·630	41·0	27·9	32·9	23·7	..	13·0	40·0	36·4	9·2	19·0	4·1	—11·4	N	N	0·0	0·0	0·0	65	0·00
26	..	29·625	39·7	20·0	31·2	18·6	..	12·8	39·3	35·9	12·6	17·3	4·3	—13·3	Calm	Calm	0·0	0·0	0·0	10	0·00
27	Full	29·750	44·8	24·1	35·4	23·4	..	22·0	39·3	35·7	12·0	18·6	5·8	— 9·2	Calm	NE; Calm	0·0	0·0	0·0	35	0·00
28	In Equator	29·954	44·2	21·0	34·5	25·1	..	15·0	39·3	35·9	9·4	15·6	7·3	—10·3	Calm	Calm	0·0	0·0	0·0	80	0·17 melted Snow
29	..	30·005	48·2	27·6	38·7	27·4	..	25·8	39·4	36·7	11·3	15·7	4·4	— 6·2	Calm; SE	ESE	1·2	0·0	0·0	75	0·00
30	..	29·745	54·2	33·2	43·9	29·4	..	31·0	40·2	36·9	14·5	19·1	11·2	— 1·1	ESE	ESE	5·0	0·0	1·9	..	0.00
31	..	29·646	58·0	39·9	45·9	41·5	..	34·0	41·0	37·4	4·4	..	..	+ 0·8	SE	S	3·0	0·0	0·2	..	0 03
April 1	..	29·395	61·4	44·2	50·8	42·8	..	42·8	42·0	38·7	8·0	14·6	6·5	+ 5·7	SSE	SE	3·6	0·0	0·7	..	0·00
2	..	29·095	62·0	50·0	52·6	47·0	..	38·4	43·8	39·7	5·6	12·8	5·2	+ 7·5	SSE	S	2·0	0·0	0·0	..	0·07
3	..	29·231	56·0	47·0	50·3	44·6	..	43·0	45·8	41·9	5·7	10·6	3·4	+ 5·2	SW	S	10·0	0·0	2·2	..	0·05
4	Last Quarter Greatest Dec. S	28·975	55·0	49·0	50·1	47·6	..	38·3	46·8	43·1	2·5	7·6	1·6	+ 4·9	S	SW	15·0	2·0	3·9	..	0·15
5	Apogee	29·628	59·9	46·4	49·9	40·9	..	29·0	48·8	44·9	9·0	14·1	5·5	+ 4·7	SW	W	7·0	0·0	2·0	..	0·00
6	..	29·573	58·2	40·5	47·8	42·5	..	44·0	48·8	44·9	5·3	10·6	5·7	+ 2·7	SW	SW	2·0	0·0	0·0	..	0·00
7	..	29·553	66·9	49·2	54·4	44·0	..	38·0	50·6	45·9	10·4	..	..	+ 9·5	SW	S	4·0	0·0	0·0	..	0·00
8	..	29.271	63·7	49·0	53·2	51·0	..	39·0	51·0	46·7	2·2	7·0	1·1	+ 8·5	Calm	S	4·0	0·0	0·0	150	0·00
9	..	29·296	55·2	39·2	46·6	42·0	..	33·0	51·8	46·9	4·6	9·2	3·5	+ 2·1	SSW	SW	6·0	0·0	2·3	195	0·04
10	..	29·313	59·2	43·2	49·2	39·3	..	29·0	51·8	47·1	9·9	15·8	6·7	+ 4·9	SW	S; SE	0·0	0·0	0·0	95	0·00
11	In Equator	29·275	61·2	40·8	49·0	46·6	..	30·0	51·3	47·1	2·4	8·7	2·9	+ 4·8	E	Calm	0·0	0·0	0·0	55	0·10
12	New	29·565	58·4	42·2	48·2	46·4	..	36·0	51·3	47·1	1·8	6·2	1·3	+ 4·0	Calm	Calm	0·0	0·0	0·0	30	0·25
13	..	29·699	55·5	44·2	46·2	45·8	..	39·8	51·3	47·4	0·4	5·2	0·7	+ 1·7	Calm	Calm	0·0	0·0	0·0	15	0·19
14	..	29·718	57·0	44·2	47·4	44·3	..	41·0	51·3	47·7	3·1	..	..	+ 2·7	N	Calm	0·0	0·0	0·0	50	0·10
15	..	29·244	60·2	44·2	48·0	45·8	..	37·0	51·3	47·9	2·2	10·2	0·0	+ 2·8	SE	S	4·8	0·0	0·8	170	0·00
16	..	29·018	53·0	44·0	46·4	44·6	..	38·0	51·3	47·9	1·8	5·5	3·4	+ 0·8	S	SW	8·4	0·0	2·9	380	0·50
17	..	29·454	64·0	46·1	51·5	42·3	..	32·0	51·3	48·4	9·2	16·7	5·7	+ 5·5	SW	SW	0·0	0·0	0·0	105	0·03
18	Perigee Greatest Dec. N.	29·828	63·2	41·5	51·4	40·1	..	33·0	51·8	48·7	11·3	19·7	6·5	+ 5·0	SW	W	0·0	0·0	0·0	10	0·01
19	First Qr.	29·832	54·8	42·2	48·0	43·6	..	39·8	52·3	48·9	4·4	6·2	1·8	+ 1·4	SSW	SW	1·5	0·0	0·0	230	0·15
20	..	29·434	61·5	45·9	49·5	44·5	..	34·0	52·3	48·9	5·0	10·2	2·8	+ 2·1	SW; W	SW	3·6	0·0	1·1	155	0·31
21	..	29·568	60·7	42·7	50·9	44·6	..	28·0	52·8	49·4	6·3	..	..	+ 3·0	S; N	N	1·2	0·0	0·0	45	0·04
22	..	29·799	55·2	40·2	46·1	34·6	..	28·8	52·6	49·4	11·5	16·2	9·0	— 2·5	N	N	0·0	0·0	0·0	65	0·01
23	..	29·831	54·8	41·0	44·8	38·4	..	23·0	52·3	49·4	6·4	11·8	5·1	— 3·9	N	N	0·0	0·0	0·0	115	0·00
24	In Equator	29·971	54·6	34·7	44·2	33·6	..	25·0	51·8	48·9	10·6	14·4	7·9	— 5·1	NW	N; E	0·0	0·0	0·0	40	0·00
25	..	29·867	56·0	37·4	47·4	37·7	..	28·0	51·0	48·7	9·7	15·2	4·8	— 2·2	SE	SE	2·4	0·0	0·4	105	0·00
26	Full	29·976	62·0	40·4	49·0	41·3	..	32·8	50·3	47·1	7·7	14·0	4·8	— 1·0	N	NE	3·6	0·0	1·5	130	0·00
27	..	30·027	55·0	40·2	45·0	33·3	..	25·0	50·0	46·9	11·7	16·6	8·6	— 5·4	NE	NE	4·0	0·0	2·0	155	0·00
28	..	30·129	55·2	36·0	44·2	33·2	..	23·0	49·8	47·4	11·0	..	..	— 6·7	NE	NE	2·4	0·0	1·0	85	0·00

MONTH and DAY, 1850.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Mar. 1	v	o	7	7 : 10
2	o	o	9	5 : 10 : 10
3	o	o	10	10
4	o	o	10, sl.-shs, r	10 : o
5	o	o	10	10
6	o	o	10	o
7	o	o	10, th.-f	10
8	v	v	10	10
9	s	s	10	o : 10
10	o	o	o	o
11	o	o	o	3 : o
12	s	s	o	o
13	o	s : o : o	o	o
14	o	o	10	10
15	o	o	10	10 : o
16	o	o	10	10 : 5
17	o : s	o : w	10	o
18	s	s	7	7 : 10
19	o	o	10, sl.-r	10, sl.-r
20	o	o	10	10
21	o	o	10	10 : o
22	o	o	10	10 : 10, r
23	o : w	w : o	10, r, sn	10
24	o	o	10, sn, sl	10, sn, sl
25	o	o	o	7 : o, f
26	o	o	o	10
○ 27	o	s	o	o : 7, sn : 5
28	o	v	10, sn : 0	7 : o
29	v	v	o	o, so.-ha : o, lu.-ha
30	w	w	10, cls, so.-ha	10, cls : 10, li.-r
31	o : w	□	10, r	v, r
Apr. 1	o	o	10	10
2	o	o	10, r	v
3	o	o	10	10 : 10, sqs, w, r
4	o	o	10, r, st.-w	10, r
5	o	o	8	5 : o
6	o	o	10	10, r
7	o	o	10	v
8	o	o : w	9	9, r
9	o	o	10, r	10
10	o	s : s	8	5 : o
11	o	o : s	10 : 9, r	v, r
12	m : m	ss, P, N, v, sp, g. cur : o	9	9, l.-t, r : 9
13	o	o : ss, N	10	10 : 10, r
14	o	o	10	10
15	o	o	10, r	10 : 8
16	o	o	10, sqs, w, r,	10, sqs, w, r
17	o	o	8	8, r : 5
18	o	s : o	10 : 8	5 : 2
19	o	s, N, P, v : o	10	10, r : 10
20	o	s, N, P, v, sp, g. cur : o	v, sqs, w, r	v, sqs, r, h, w
21	o	o	v	v, r : v
22	o	o	10 : 10	10 : o
23	o	w : w	10	10
24	s : s	s : s	8	8
25	o	o	10	10 : o
○ 26	o	o	v	v
27	o	o	v	v : o
28	o	o	5	o

MONTH and DAY, 1850.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	From 4 Diffs. Greatest.	From 4 Diffs. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
April 29	..	30·180	58·2	34·0	45·7	34·4	..	27·0	49·8	47·1	11·3	16·4	8·6	— 5·6	NE	NE	0·0	0·0	0·0	35	0·00
30	..	30·062	56·8	36·5	45·9	33·9	..	34·0	49·8	47·4	12·0	17·0	8·7	— 5·9	NE	NE	0·0	0·0	0·0	105	0·00
May 1	Greatest Declination S.	29·933	50·8	40·2	42·5	33·1	..	23·0	..	..	9·4	15·2	2·4	— 9·7	N	N	2·4	0·0	0·6	150	0·02
2	..	30·117	58·0	34·8	44·4	31·5	..	15·0	..	..	12·9	19·8	4·0	— 8·0	N	N; E	0·0	0·0	0·0	100	0·00
3	Apogee	30·101	60·2	31·7	46·7	33·3	..	31·4	..	..	13·4	20·1	13·2	— 5·8	ESE to W, passing S	W	0·5	0·0	0·0	55	0·00
4	Last Qr.	29·753	62·0	42·9	49·1	39·6	..	27·0	..	..	9·5	14·4	3·2	— 3·3	WSW	WSW to N	3·0	0·0	0·3	95	0·09
5	..	29·466	60·5	38·9	48·8	38·9	85·3	30·0	..	..	9·9	..	..	— 3·2	SW	N	0·0	0·0	0·0	95	0·04
6	..	29·438	45·8	42·0	42·8	40·9	45·0	31·0	..	..	1·9	2·5	1·4	— 8·8	NNE	NE	6·0	0·0	1·0	155	0·65
7	..	29·360	48·7	42·7	44·7	44·5	45·5	43·0	..	..	0·2	0·9	0·0	— 7·0	NE	NE	2·4	0·0	0·5	40	0·20
8	In Equator	29·320	47·8	43·1	44·3	42·7	59·3	32·0	50·6	47·0	1·6	2·5	0·2	— 7·7	NE	N; WSW	0·0	0·0	0·0	85	0·24
9	..	29·727	56·8	41·4	45·5	39·1	80·3	23·8	50·6	47·0	6·4	10·5	3·8	— 6·7	WSW; N	NNE	0·0	0·0	0·0	45	0·06
10	..	29·850	59·4	35·5	48·8	36·5	76·3	39·0	51·1	47·0	12·3	16·9	5·5	— 3·6	SSE	SW	3·0	0·0	0·2	150	0·00
11	New	29·866	61·0	47·0	52·1	44·1	69·3	43·0	51·6	47·7	8·0	13·0	6·0	— 0·5	SW	WSW	2·4	0·0	0·2	115	0·00
12	..	29·879	65·3	45·2	52·6	41·6	83·3	29·0	52·6	48·5	11·0	..	..	0·0	SW	NW; N	2·8	0·0	0·3	120	0·01
13	..	29·983	64·3	39·4	50·3	38·3	90·5	28·0	52·8	49·5	12·0	20·5	1·7	— 2·3	N	NE; E	0·0	0·0	0·0	45	0·02
14	Perigee	29·851	54·0	38·2	46·4	36·0	58·3	37·0	53·6	49·5	10·4	12·2	8·4	— 6·2	Calm	W	0·0	0·0	0·0	115	0·11
15	Greatest Declination N.	29·783	53·8	41·6	43·7	37·7	67·3	24·0	54·6	49·5	6·0	11·7	2·8	— 8·8	N	N	4·0	0·0	0·8	145	0·02
16	..	29·806	58·3	32·9	46·0	32·7	71·3	31·0	55·6	50·0	13·3	17·4	8·6	— 6·4	N	N	0·0	0·0	0·0	30	0·00
17	..	29·773	64·9	41·4	52·2	45·2	79·3	36·0	54·6	50·5	7·0	13·7	1·3	+ 0·2	NW	NW	0·0	0·0	0·0	30	0·05
18	First Qr.	29·647	64·8	45·4	53·2	46·2	67·3	36·2	55·1	51·0	7·0	11·9	2·8	+ 1·4	WNW	SW	0·0	0·0	0·0	75	0·01
19	..	29·649	69·5	44·2	54·9	48·9	81·3	34·8	55·6	51·0	6·0	11·7	0·2	+ 2·8	Calm; E	E	0·0	0·0	0·0	75	0·07
20	..	29·593	66·3	43·9	53·9	46·9	70·3	38·3	56·6	51·7	7·0	15·1	2·2	+ 1·1	ENE	ENE	0·0	0·0	0·0	85	0·01
21	In Equator	29·592	72·0	47·1	60·0	49·4	98·3	47·0	58·4	53·0	10·6	16·2	1·6	+ 6·3	NE	N; E	0·0	0·0	0·0	80	0·00
22	..	29·439	61·0	51·2	53·1	49·0	83·3	38·6	58·6	53·5	3·2	7·9	2·2	— 1·4	E; W, passing S	SE	0·0	0·0	0·0	90	0·18
23	..	29·387	70·1	49·4	57·4	50·6	88·3	32·0	59·1	54·5	6·8	13·1	0·8	+ 2·1	Calm	S	0·0	0·0	0·0	50	0·00
24	..	29·312	67·3	40·4	54·5	49·3	82·3	45·5	59·6	54·7	5·2	7·5	1·9	— 1·3	Calm; E	SW	2·8	0·0	0·1	195	0·00
25	..	29·430	64·8	50·4	54·6	46·2	80·0	42·0	59·6	54·7	8·4	13·1	1·2	— 1·6	SW	SSW; SSE	4·5	0·0	0·9	205	0·21
○ 26	Full	29·554	69·8	47·6	55·3	49·1	..	49·0	59·8	55·5	6·2	..	..	— 1·2	SSW	SSW	4·0	0·0	1·1	180	0·07
27	..	29·592	65·8	50·2	55·5	50·7	..	39·5	59·8	55·7	4·8	8·3	4·4	— 1·1	SSW	SW	0·0	0·0	0·0	160	0·03
28	Greatest Declination S.	29·944	67·3	47·5	55·6	48·8	..	41·0	59·8	56·0	6·8	10·4	4·2	— 1·3	SW	SW	2·5	0·0	0·3	105	0·26
29	..	30·072	70·8	49·1	59·9	50·0	85·0	38·0	60·6	56·7	9·9	14·1	6·1	+ 2·5	SSW	Calm	0·0	0·0	0·0	50	0·00
30	Apogee	29·903	68·8	49·1	57·4	52·8	73·0	38·0	61·1	57·5	4·6	7·7	3·6	— 0·5	E	E	0·0	0·0	0·0	85	0·00
31	..	30·019	76·5	46·0	62·9	51·5	95·5	35·0	62·6	58·5	11·4	16·5	5·1	+ 4·5	NE	E	0·0	0·0	0·0	75	0·00
June 1	..	30·179	78·1	43·8	61·1	50·1	101·0	37·0	63·4	59·7	11·0	16·2	4·8	+ 2·3	NE	E	0·0	0·0	0·0	35	0·00
2	..	30·245	74·8	43·8	59·6	47·4	..	34·0	64·6	60·5	12·2	14·7	1·9	+ 0·2	E	E	0·0	0·0	0·0	70	0·00
3	Last Qr.	30·198	74·6	43·4	60·9	45·2	103·3	35·0	65·6	61·5	15·7	20·9	1·0	+ 1·4	E	E	0·0	0·0	0·0	45	0·00
4	..	30·042	77·5	43·4	61·6	49·0	105·3	38·0	66·1	61·5	12·6	21·0	4·8	+ 2·3	E	E	0·0	0·0	0·0	45	0·00
5	In Equator	29·776	78·3	49·6	63·5	55·0	104·3	48·0	66·6	62·5	8·5	19·5	3·8	+ 4·4	E	SW	0·0	0·0	0·0	115	0·00
6	..	29·500	64·1	52·9	54·5	49·9	70·3	45·0	66·4	62·0	4·6	11·0	2·4	— 4·4	W	SSW	3·6	0·0	0·8	195	0·02
7	..	29·551	67·6	50·4	57·3	48·7	92·3	40·0	65·6	61·5	8·6	13·8	4·8	— 1·4	SW	SW	6·0	0·0	3·0	175	0·03
8	..	29·836	68·5	47·8	57·4	48·5	75·0	37·0	64·6	61·0	8·9	13·8	5·6	— 1·2	SW	NW; W	1·5	0·0	0·0	105	0·03
9	..	30·059	76·9	44·6	59·1	49·7	..	40·0	64·6	61·0	9·4	23·7	2·5	+ 0·4	SW	SW	0·0	0·0	0·0	70	0·00
10	New	29·910	78·5	45·3	62·9	50·0	100·3	45·0	64·6	61·5	12·9	23·3	1·2	+ 3·9	SW	S; E	0·0	0·0	0·0	65	0·00
11	Perigee Greatest Dec. N	29·739	81·7	52·4	67·5	54·6	112·3	39·5	65·6	62·5	12·9	24·3	2·8	+ 7·8	E; W	W	1·8	0·0	0·3	135	0·00
12	..	29·672	70·1	49·9	58·9	51·5	..	40·0	65·4	62·0	7·4	13·8	2·8	— 1·8	SW	SW	3·6	0·0	1·4	215	0·00
13	..	29·535	68·5	48·7	57·1	45·5	82·0	40·0	65·1	61·5	11·6	19·5	3·4	— 3·9	WSW	WSW	7·2	0·0	1·3	180	0·02
14	..	29·458	60·6	47·4	52·2	50·8	62·3	43·0	63·6	60·0	1·4	10·2	0·6	— 8·9	SW	SW	4·0	0·0	0·8	230	0·15
15	..	29·542	59·3	45·5	48·3	45·1	61·5	29·0	62·4	59·0	3·4	11·4	0·8	—12·7	SW; N	NNE	3·0	0·0	0·8	20	0·02
16	First Qr.	29·912	68·0	36·2	52·6	40·0	81·0	34·5	62·1	58·5	12·6	21·7	0·5	— 8·6	NNE	N to S, passing E	0·0	0·0	0·0	5	0·00
17	In Equator	29·979	71·5	41·0	55·8	45·7	90·0	..	61·8	58·5	10·1	15·2	1·1	— 5·2	S	NE; W	0·0	0·0	0·0	30	0·05
18	..	30·146	75·4	44·3	61·5	45·3	90·0	43·0	62·1	58·5	16·2	26·1	3·1	+ 0·7	WSW	SW	0·0	0·0	0·0	80	0·00
19	..	30·130	77·6	49·2	62·5	52·0	83·0	42·0	62·8	59·0	10·5	22·3	2·0	+ 1·8	WSW	NNE; SE	0·0	0·0	0·0	15	0·00
20	..	30·116	79·5	50·0	66·1	52·4	95·5	44·0	64·1	60·5	13·7	20·9	4·0	+ 5·6	SE	Var. E to S	0·0	0·0	0·0	25	0·00
21	..	30·016	82·5	52·5	68·3	54·6	99·0	42·5	65·1	61·5	13·7	24·0	1·0	+ 7·8	Var. S to NW	WSW	1·0	0·0	0·0	100	0·00
22	..	30·065	81·8	50·5	68·0	55·0	96·0	42·5	66·8	62·5	13·0	21·2	1·1	+ 7·6	WSW	W	0·0	0·0	0·0	85	0·00
23	..	30·120	85·1	51·2	67·7	57·0	97·0	48·5	68·4	63·7	10·7	25·7	0·6	+ 7·4	W	NNE	0·0	0·0	0·0	25	0·00
○ 24	Full	30·096	81·7	56·0	69·4	58·0	97·0	44·0	69·4	64·7	11·4	21·8	1·6	+ 9·2	E	E	0·0	0·0	0·0	55	0·00
25	Greatest Declination S.	29·980	82·2	52·8	69·1	55·4	95·0	43·0	70·6	65·5	13·7	25·8	1·6	+ 9·1	E	E	0·0	0·0	0·0	70	0·00
26	..	29·769	81·0	52·0	66·8	58·2	93·0	52·0	70·6	65·5	8·6	22·5	0·6	+ 7·1	E	E	0·0	0·0	0·0	75	0·00

MONTH and DAY, 1850.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
April 29	o	w : o	8	10
30	o	m : o	8	10
May 1	o	o	10, r	10 : v
2	o	o	v	v : o
3	v	v	3 : 5	10
4	o : s, N, sp, g. cur	s, N, sp, g. cur : o	10 : 10, r, sqs, w, r	10, r, sqs, w, r
5	o	o : w	7, r	7, r
6	o	o	10, r	10, r
7	o	o	10, r	10, r : 10, f
8	o	o	10, r	10, r
9	o	o	5	5
10	o	o	8	9
11	o	w : o	8, r	6 : 8, r
12	o	o	10	o
13	o : w	o	8	v : v, r
14	o	o	10	10 : 10, r
15	o	s : o	9	9
16	s	s	8	8 : 10
17	s : s	s : m, N	10	10 : 10, r
18	v : s	v : v	10	v
19	o	s, N : o	v	v, r
20	v	v	10 : 8	o
21	o	o	o	o : v
22	o	o	10, r : 10	10 : o
23	s	s	10	10 : o
24	m : m	o	10	10
25	o	o	v, ci.-s, cu, sc	v, ci.-s, cu, sc : v, ci.-s, cu, sc, r
☽ 26	o	o	10, r	v : o
27	o	o	8	8, r
28	o	s, N : o	10, r	v, r
29	o	o	5	2 : o
30	o	o	8	1
31	o	w : o	o	o
June 1	s : s	s : s	o	o
2	s	s	o	o
3	s	s	o	o
4	s : s	s : o	o	o
5	o : m	o	2, cu, ci.-s, sc	5, cu, ci.-s, sc : 10, cu, ci.-s, sc
6	o	o	10, ci.-s, r	10, ci.-s, r : o
7	o	o	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc, r : 10, cu.-s, ci.-s, sc
8	o : m, P, N, v	o	10, cu, cu.-s, sc, r : 10, cu, cu.-s, sc	10, cu, cu.-s, sc : o
9	o	o : m	5, cu, ci.-s, li.-cls	o : 5, cu, ci.-s, li.-cls
10	o	v : o	7, cu, ci.-s, li.-cls	7, cu, ci.-s, li.-cls : 10, cu, ci.-s, li.-cls
11	o	s : o	10, cu, cu.-s	5, cu, cu.-s : o
12	o	o	10, ci.-s, sc	10, ci.-s, sc
13	P, N, sps, g. cur	o	10, cu, cu.-s, sc, sqs, w, r	5, cu, cu.-s, sc, sqs : w, r
14	o	o	10, ci.-s, sc, r	10, ci.-s, sc, r
15	o	N, m : o : o	10	10, r : o
16	m	m	3, li.-cls	3, h
17	o	o	7, ci.-s, sc, cu	7, ci.-s, sc, cu, sh.-r
18	s	s	3, ci.-s, ci, sc, cu	3, ci.-s, ci, sc, cu
19	o	o	o : 3, ci.-s, h	3, ci.-s, h : o
20	o	m	o, : 3, h	3, h : o
21	w	w	3, cu, li.-cls	3, cu, li.-cls
22	w	w	o : 5, ci, ci.-cu, h	5, ci, ci.-cu, h : o
23	s	o : o : s	o	o
☽ 24	o	o : o : s	o	o
25	o	o	o	o
26	o	o	o	o : 3 : 10, r, t

MONTH and DAY, 1850.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	From 4 Diffs. Greatest.	From 4 Diffs. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Osler's. General Direction. P. M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
June 27	Apogee	29·908	69·0	54·0	59·2	51·3	79·0	44·0	70·1	65·5	7·9	15·7	3·4	— 0·3	NE	NE	3·5	0·0	1·0	100	0·37
28	..	29·600	72·5	50·1	59·6	58·5	..	52·0	69·1	64·7	1·1	8·7	0·0	— 0·0	ENE	ENE; E	0·5	0·0	0·0	50	0·15
29	..	29·669	69·0	53·0	57·9	49·2	..	39·0	68·4	64·0	8·7	14·7	2·8	— 1·8	NW	W	1·5	0·0	0·1	135	0·10
30	..	29·841	67·7	45·0	57·2	45·3	..	52·0	67·1	62·7	11·9	14·0	1·6	— 3·0	SW	SW	2·8	0·0	0·6	170	0·00
July 1	..	29·708	70·8	57·0	60·9	53·0	79·0	40·0	67·8	63·3	7·9	13·3	4·9	+ 0·2	SW	SW	4·8	0·0	1·0	180	0·00
2	In Equator Last Quarter	29·759	71·0	48·7	60·0	48·8	85·2	47·0	66·8	62·0	11·2	18·0	0·0	— 1·3	SW	SW	2·0	0·0	0·4	210	0·00
3	..	29·673	72·9	52·4	60·7	56·4	80·0	50·0	66·1	61·5	4·3	13·8	2·9	+ 0·1	SW	SW	8·0	0·0	2·0	215	0·00
4	..	29·657	65·2	52·8	59·7	56·5	79·0	40·0	65·2	60·7	3·2	8·4	0·9	— 2·1	Calm	SW; W	3·0	0·0	0·6	165	0·70
5	..	29·969	69·0	47·0	59·0	47·1	77·5	37·0	64·6	60·5	11·9	17·3	0·0	— 2·9	W	W	1·3	0·0	0·2	75	0·02
6	..	29·888	70·2	45·7	59·6	48·8	82·0	49·0	64·1	60·5	10·8	15·2	0·0	— 2·2	W	SSE	0·0	0·0	0·0	75	0·00
7	..	29·681	67·0	50·2	57·4	52·8	..	40·0	64·1	60·5	4·6	6·0	0·0	— 4·0	Calm	N	6·0	0·0	0·8	150	0·30
8	..	29·885	70·0	46·3	56·4	45·6	80·7	34·0	63·6	60·0	10·8	15·8	0·6	— 4·5	W; N	N	0·0	0·0	0·0	90	0·01
9	Greatest Dec. N. New	29·845	68·8	45·2	56·7	47·4	77·0	37·5	63·2	59·7	9·3	14·5	3·5	— 3·9	W	NW	3·5	0·0	0·3	130	0·20
10	Perigee	29·922	68·5	43·5	58·0	45·7	77·0	38·0	63·1	60·0	12·3	15·2	1·1	— 2·7	N	NW	0·0	0·0	0·0	85	0·01
11	..	29·945	71·5	47·2	59·7	55·9	76·0	44·5	63·1	60·0	3·8	11·1	1·0	— 1·3	Calm	Calm	0·0	0·0	0·0	25	0·00
12	..	29·946	78·0	50·0	63·6	56·5	83·0	39·4	63·6	60·3	7·1	12·0	0·0	+ 2·3	Calm	ENE	0·0	0·0	0·0	40	0·00
13	..	29·900	81·5	48·8	64·8	52·8	110·0	47·8	64·6	61·5	12·0	18·0	0·5	+ 3·2	Calm; NE	NE	0·0	0·0	0·0	45	0·00
14	..	29·902	78·0	54·8	62·8	58·4	..	47·0	64·6	61·5	4·4	7·2	0·6	+ 1·0	N	NE	0·0	0·0	0·0	80	0·00
15	In Equator	29·846	85·0	54·9	70·4	61·8	92·0	53·8	66·4	62·7	8·6	13·7	2·4	+ 8·6	NE	NNE	0·0	0·0	0·0	60	0·00
16	First Qr.	29·782	87·0	60·3	73·6	63·1	105·5	51·0	68·4	64·0	10·5	19·4	0·2	+12·1	ENE	Calm	0·0	0·0	0·0	55	0·03
17	..	29·731	82·2	60·0	69·4	64·7	95·0	55·0	68·8	64·5	4·7	9·8	0·0	+ 8·4	Calm	N; Calm	0·0	0·0	0·0	20	0·00
18	..	29·811	72·0	58·2	61·9	59·9	78·0	55·0	69·4	65·0	2·0	6·8	0·0	+ 1·2	Calm	Calm	0·0	0·0	0·0	25	0·26
19	..	29·806	70·0	58·0	61·1	59·8	68·0	53·0	69·4	65·5	1·3	8·3	0·0	+ 0·6	SW	Calm	0·0	0·0	0·0	50	0·37
20	..	29·819	63·2	57·0	60·1	58·3	67·0	55·5	68·6	65·0	1·8	2·3	0·0	— 0·2	N	Calm	0·0	0·0	0·0	40	0·12
21	..	29·843	74·4	57·0	63·6	59·9	..	45·7	69·1	65·3	3·7	7·4	0·0	+ 3·3	Calm	Calm	0·0	0·0	0·0	35	0·00
22	Greatest Declination S.	29·815	81·5	53·2	68·8	59·0	93·0	50·0	69·6	65·7	9·8	17·7	0·0	+ 8·4	SSE	E	0·0	0·0	0·0	70	0·00
23	..	29·681	84·4	59·3	72·3	62·7	99·0	54·0	70·1	66·3	9·6	19·2	0·7	+11·7	E	E; SW	1·0	0·0	0·1	80	0·10
○ 24	Full Apogee	29·789	74·5	55·9	62·6	55·0	86·0	48·0	69·8	66·0	7·6	13·2	0·2	+ 1·7	W	SW	0·0	0·0	0·0	75	0·04
25	..	29·559	62·7	54·0	59·7	57·7	66·0	46·0	69·1	65·7	2·0	2·7	0·0	— 1·6	SSW; E	SW	3·5	0·0	0·2	120	0·41
26	..	29·554	71·5	50·5	59·8	54·7	75·0	48·0	68·1	64·3	5·1	9·6	0·6	— 1·7	WSW	W	2·0	0·0	0·2	105	0·00
27	..	29·599	63·8	54·0	57·4	56·1	66·0	42·8	67·1	63·7	1·3	2·3	0·0	— 4·3	W	WSW; N	1·0	0·0	0·1	140	0·28
28	..	29·403	66·5	53·3	58·5	56·4	..	49·8	65·8	62·5	2·1	..	..	— 3·2	N	NNW	3·5	0·0	0·9	100	0·03
29	..	29·713	73·8	53·2	62·6	57·5	79·0	42·4	65·6	62·3	5·1	11·3	0·0	+ 0·9	NNW	N	0·0	0·0	0·0	60	0·00
30	In Equator	30·054	70·5	53·3	60·6	56·5	76·0	47·7	65·6	61·5	4·1	8·5	0·0	— 1·0	N	N	0·0	0·0	0·0	45	0·00
31	..	29·968	74·0	57·0	65·1	60·6	75·8	48·2	65·6	62·0	4·5	10·4	0·0	+ 3·6	Calm	Calm	0·0	0·0	0·0	10	0·00
Aug. 1	Last Qr.	30·028	69·3	55·5	60·6	57·1	79·0	51·8	65·4	62·3	3·5	6·4	0·0	— 0·6	N	E	0·0	0·0	0·0	20	0·06
2	..	29·945	66·6	56·5	60·0	58·6	74·0	53·0	65·1	62·3	1·4	6·3	0·2	— 1·2	E	Calm	0·0	0·0	0·0	60	0·00
3	..	29·903	74·8	59·8	60·8	58·3	83·8	48·5	65·6	63·0	2·5	9·3	1·9	— 0·5	Calm	Calm	0·0	0·0	0·0	60	0·00
4	..	29·743	76·2	56·0	64·3	58·7	..	45·5	66·6	62·7	5·6	13·1	0·0	+ 2·7	WSW	SW	2·8	0·0	0·6	130	0·00
5	Greatest Declination N.	29·572	81·0	54·2	68·8	60·4	93·5	43·0	67·6	63·0	8·4	17·1	0·0	+ 7·2	SW	SW	0·0	0·0	0·0	40	0·00
6	..	29·595	72·8	56·4	63·2	55·0	85·0	44·0	67·8	63·5	8·2	13·8	0·0	+ 1·5	SW	Calm	0·0	0·0	0·0	30	0·06
7	Perigee New	29·749	76·5	51·8	64·2	53·5	90·0	58·0	68·1	63·7	10·7	18·3	0·3	+ 2·5	Calm	SW	0·0	0·0	0·0	130	0·01
8	..	29·579	73·0	57·8	64·4	62·4	..	46·8	68·1	63·5	2·0	5·7	1·2	+ 2·8	S	S	2·0	0·0	0·0	180	0·09
9	..	29·582	71·2	52·7	61·0	53·1	..	47·0	67·6	63·5	7·9	12·3	1·0	— 0·4	SW	SW	6·5	0·0	1·7	235	0·00
10	..	29·736	75·0	53·2	63·5	54·7	..	50·0	66 6	63·0	8·8	18·3	0·0	+ 2·3	SW	SW	2·0	0·0	0·0	95	0·00
11	In Equator	29·634	74·8	53·0	62·0	51·3	..	45·0	66·8	63·3	10·7	15·6	3 0	+ 0·9	W	SW	4·0	0·0	0·9	180	0·00
12	..	29·625	70·0	52·6	57·9	55·0	78·0	40·0	66·1	62·7	2·9	8·2	0·8	— 3·2	Calm	Calm	0·0	0·0	0·0	55	0·80
13	..	29·717	73·7	58·0	62·9	57·6	90·7	49·0	66·1	62·7	5·3	14·3	1·0	+ 1·7	Calm	Calm	0·0	0·0	0·0	50	0·00
14	First Qr.	29·866	70·5	55·0	61·6	57·5	85·8	50·5	65·8	62·5	4·1	7·5	3·6	+ 0·3	NE	NE	1·0	0·0	0·2	95	0·00
15	..	29·837	69·5	57·2	60·5	58·2	75·0	49·0	65·8	62·5	2·3	6·4	2·0	— 1·0	NNE	N	1·0	0·0	0·0	180	0·06
16	..	29·812	79·0	54·9	66·6	58·6	90·0	48·5	66·1	62·5	8·0	13·7	4·2	+ 4·9	N	N	3·0	0·0	0·4	60	0·00
17	..	29·834	78·0	58·7	66·5	61·1	90·0	44·0	66·6	63·3	5·4	11·4	3·0	+ 4·7	Calm	W	0·0	0·0	0·0	50	0·00
18	Greatest Declination S.	29·709	75·2	53·8	64·2	57·4	88·0	42·0	66·6	63·0	6·8	14·3	0·0	+ 2·5	Calm; SW	SW	3·0	0·0	0·5	210	0·00
19	..	29·637	68·2	51·3	58·2	45·8	80·0	39·0	66·1	62·3	12·4	18·2	7·2	— 3·4	W	WSW	5·0	0·0	2·0	250	0·00
20	Apogee	29·594	68·0	48·0	57·4	42·4	..	40·8	64·8	61·5	15·0	19·7	2·2	— 3·8	SW	W	3·0	0·0	0·9	120	0·00
21	..	29·477	59·8	46·8	50·9	49·4	62·0	33·5	63·6	60·3	1·5	7·4	0·0	— 9·6	Calm	Calm	0·0	0·0	0·0	85	0·60
22	Full	29·692	64·8	40·0	51·8	42·6	70·0	41·0	62·8	59·5	9·2	12·5	0·0	— 7·9	SW	S	4·0	0·0	0·5	100	0·00
23	..	29·800	67·0	47·7	57·9	48·6	82·0	36·8	62·8	59·5	9·3	13·6	0·0	— 1·6	Calm	SW	1·3	0·0	0·0	80	0·00
24	..	29·865	71·0	44·2	58·9	49·7	79·0	43·0	62·6	59·5	9·2	14·6	0·0	— 0·9	SSW	SW	0·8	0·0	0·0	110	0·07

MONTH and DAY, 1850.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
June 27	o	o	10, ci.-s, cu, sc	3, h.-r, t, l, ci.-s, cu, sc : 10, r, ci.-s, cu, sc
28	o	o : o : N, s	10, ci.-s, cu, sc	10, ci.-s, cu, sc : 10, ci.-s, cu, sc : 3, l, t, r, ci.-s, cu, sc
29	o	o : o : w	10, r, ci.-s, cu, sc	10, ci.-s, cu, sc : o
30	o	o	7, ci.-s, sc, li.-cls, sl.-shs, r	7, ci.-s, sc, li.-cls, sl.-shs
July 1	o	o	10, cu, cu.-s, sc	5, cu, cu.-s, sc
2	o	o	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc, sl.-sh : 10, cu.-s ci.-s, sc
3	o	o	10, cu, ci.-s, sc : 10, cu, cu.-s, sc, sh.-r	10, cu, ci.-s, sc
4	o	o	10, h.-r	10 : o
5	o	o	8, cu, cu.-s, sc	8, cu, cu.-s, sc : o
6	o	o	10, cu.-s, ci.-s, sc, li.-cls	10, cu.-s, ci.-s, sc, li.-cls
7	o	o	10, ci.-s, sc, fr.-shs, r	10, ci.-s, sc, fr.-shs.-r
8	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s : o, l
9	o	o	10, cu, ci.-s, li.-cls, sc : 7, cu, ci.-s, li.-cls	7, cu, ci.-s, li.-cls, sc, h.-r : 7, cu, ci.-s, li.-cls, sc
10	o	s	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc
11	o	s	10, s, li.-cls, sc	10, s, li.-cls, sc : 10, s, li.-cls, sc : o
12	s	s	10, ci.-s, li.-cls, sc	10, ci.-s, li.-cls, sc
13	v	v	o	10, cu, ci.-s, sc
14	m	m	10, ci.-s, sc	5, ci.-s, sc
15	o	o	5, cu, cu.-s, li.-cls	5, cu, cu.-s, li.-cls : o
16	o	s	5, r, cu, cu.-s : 5, cu, cu.-s	5, cu, cu.-s : 10, s
17	s	s	5, cu, cu.-s, ci.-s	10, cu, cu.-s ci.-s, t
18	o	w : o	10, ci.-s	10, ci.-s, t, r : 10, ci.-s
19	o	o	10, ci.-s, fr.-r	10, ci.-s, fr.-r
20	o	m : o	10, ci.-s, fr.-r	10, ci.-s, fr.-r
21	w	o	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s, sl.-sh
22	w	w	o	5, cu, cu.-s, ci.-s : 10, cu, cu.-s, ci.-s
23	o	o : w	3, ci.-s, li.-cls	10, ci.-s, li.-cls, r : 10, ci.-s, li.-cls
○ 24	o	o : s	10, cu, cu.-s, ci.-s	5, cu, cu.-s, ci.-s
25	o	N, s : o : o	10, ci.-s, r	10, ci.-s, r
26	o	o	10, ci.-s, sc	10, ci.-s, sc
27	o	o	10, ci.-s, r	10, ci.-s, r : o
28	o	o	10, ci.-s, r	10, ci. s, r
29	o	o	10, cu, cu.-s, ci.-s	5, cu, cu.-s, ci.-s : o
30	o	o	10, ci.-s, li.-cls, sc	10, ci.-s, li.-cls, sc : o
31	o	o	10, ci.-s	10, ci.-s
Aug. 1	o	o	10, ci.-s, r	10, ci.-s
2	o	o	10, ci.-s	10, ci.-s
3	o	o	10, cu, cu.-s, ci.-s, sh.-r	5, cu, cu.-s. ci.-s : o
4	o	o	10, cu, cu.-s, ci.-s	o
5	o	o	5, ci.-cu, ci.-s	o : 5, ci.-cu, ci.-s
6	o	s : o	10, ci.-s	10, ci.-s : 10, ci.-s, r : 10, ci.-s
7	o	o	3, cu, cu.-s, li.-cls	3, cu, cu.-s, li.-cls : 10, cu, cu.-s, li.-cls
8	o	o	10, ci.-s, sc	10, ci.-s, sc, h.-r : 10, ci.-s, sc, sl.-r
9	o	o	10, cu, cu.-s, sc	10, cu, cu.-s, sc
10	o	o	10, ci.-cu, ci.-s	5, ci.-cu, ci.-s : 10, sl.-r, ci.-cu, ci.-s
11	o	o	10, ci.-s, li.-cls, sc	10, ci.-s, li.-cls, sc, sl.-shs : o
12	o	s, sps, g. cur	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s, t, l, h.-r : o
13	o	o : w	10, cu, cu.-s, ci.-s	5, cu, cu.-s, ci.-s : o
14	o	o : s	10, cu, cu.-s, ci.-s, sc	10, cu, cu.-s, ci.-s, sc : 5, cu, cu.-s, ci.-s, sc
15	v	o	10 : 10, h.-sh	10 : o : 10, s
16	o	o	o	5, cls, cu, ci.-cu, ci.-s : 10, cu, ci.-cu, ci.-s
17	o	o	10, ci.-s	10, ci.-s
18	o	o	10, ci.-s	10, ci.-s : 10, ci.-s, sl.-r : 10, ci.-s
19	o	o	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s : o
20	o	o	5, ci.-cu, ci, sc	5, ci.-cu, ci, sc
21	P, N, s, sps, g. cur	P, N, s, sps, g. cur	10, ci.-s, r	10, ci.-s, r : 10, ci.-s
○ 22	o	o	o : 8, cu, ci.-s, sc	8, cu, ci.-s, sc : o
23	o	o	o	7, sl.-sh : o
24	P, N, s, sps, g. cur	s	10, cu, ci.-s, sc, t.-s, h.-sh	7, cu, ci.-s, sc : o

MONTH and DAY, 1850.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	From 4 Diffs. Greatest.	From 4 Diffs. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Aug. 25	..	29·838	62·5	50·8	59·1	52·8	74·0	58·0	62·2	59·0	6·3	9·4	2·7	— 1·1	Calm; SW	SW	5·0	0·0	2·5	240	0·02
26	In Equator	29·841	70·5	55·4	61·6	52·6	80·0	33·0	62·6	59·3	9·0	15·2	4·8	+ 1·3	SW	NNW	4·0	0·0	1·8	325	0·07
27	..	29·910	68·3	44·5	59·6	51·5	80·0	46·5	62·6	60·0	8·1	12·8	3·1	— 0·9	Calm	SW	4·0	0·0	1·7	230	0·00
28	..	29·960	66·0	52·8	58·0	46·1	77·0	32·5	62·8	60·0	11·9	15·5	6·8	— 2·6	N	NW	2·0	0·0	0·0	80	0·05
29	..	30·013	62·0	47·0	53·5	44·5	70·0	26·0	62·2	59·5	9·0	12·2	6·8	— 7·1	NW	NW	0·0	0·0	0·0	85	0·00
30	Last Qr.	30·114	64·0	41·5	53·0	44·6	69·8	30·0	61·8	59·3	8·4	15·3	0·0	— 7·5	Calm	Calm	0·0	0·0	0·0	40	0·00
31	..	30·176	60·5	43·0	53·6	46·6	68·0	35·0	61·2	58·5	7·0	10·1	5·0	— 6·6	Calm; SW	Calm	0·0	0·0	0·0	70	0·00
Sep. 1	Greatest Declination N.	30·230	67·0	50·0	57·0	55·3	..	38·5	61·1	58·3	1·7	6·9	..	— 2·7	W	NNW	0·0	0·0	0·0	50	0·04
2	..	30·235	70·5	52·0	61·5	56·4	75·0	36·8	61·1	58·0	5·1	9·3	2·0	+ 2·2	W	W	0·0	0·0	0·0	70	0·00
3	..	30·095	62·5	51·0	57·5	50·7	70·0	44·0	61·1	58·3	6·8	9·7	4·0	— 1·3	NW; W	NW	0·0	0·0	0·0	75	0·04
4	Perigee	30·193	67·0	46·7	56 0	45·7	73·0	27·0	61·4	58·3	10·3	14·5	5·1	— 2·5	NE	N	0·0	0	0·0	55	0·00
5	..	30·180	65·0	42·0	55·0	43·0	74·0	27·0	61·2	58·3	12·0	15·6	6·2	— 3·5	N	N	0·0	0·0	0·0	40	0·00
6	New	30·178	65·0	45·0	53·6	42·2	72·0	24·0	61·1	57·7	11·4	20·0	4·1	— 4·9	E; N	N	1·0	0·0	0·0	75	0·00
7	..	30·260	66·0	39·0	54·6	39·2	73·0	28·0	60·6	57·3	15·4	21·0	2·8	— 4·1	NNE	NE	0·0	0·0	0·0	45	0·00
8	In Equator	30·278	60·0	46·0	53·4	43·0	..	43·2	60·1	57·0	10·4	13·7	7·6	— 5·8	N	N	0·8	0·0	0·0	95	0·00
9	..	30·210	58·5	50 0	52·5	43·5	..	43·0	59·4	56·5	9·0	14·4	8·0	— 7·0	N	N	0·0	0·0	0·0	30	0·00
10	..	30·181	67·3	49·3	56·1	46·8	..	32·0	59·4	56·5	9·3	14·4	2·3	— 3·7	N	E; Calm	0·0	0·0	0·0	45	0·00
11	..	30·144	66·0	45·5	56·1	47·4	..	32·0	59·4	56·5	8·7	13·3	2·5	— 3·8	Calm; E	E; ENE	0·7	0·0	0·0	70	0·00
12	..	30·126	69·5	44·7	57·5	46·1	..	30·0	59·6	56·5	11·4	16·8	2·8	— 2·4	ENE	ENE	0·0	0·0	0·0	60	0·00
13	First Qr.	30·140	66·3	41·3	53·4	43·1	..	..	59·4	56·0	12·3	17·8	2·6	— 4·3	ENE	E; ENE	3·0	0·0	0 5	85	0·00
14	Greatest Declination S.	30·117	68·0	41·1	56·1	42·1	..	36·0	59·1	55·7	14·0	19·5	2·4	— 3·6	NE	E	0·0	0·0	0·0	75	0·00
15	..	30·142	68·0	44·9	57 5	45·9	..	45·0	58·8	55·5	11·6	15·3	2·4	— 2·2	NE	NE	1·0	0·0	0·0	100	0·00
16	..	30·143	65·5	52·6	58·4	45·3	..	45·2	58·6	55·5	13·1	18·1	4·8	+ 0·2	NE	NE	0·0	0·0	0·0	80	0·00
17	Apogee	30·137	65·0	51·7	57·6	47·2	..	31·0	58·6	55·3	10·4	12·6	3·6	— 0·7	NE	NE	0·0	0·0	0·0	70	0·00
18	..	29·864	69·5	45·7	58·3	47·8	..	37·0	58·6	55·3	10·5	15·7	0·8	+ 0·7	NE	E	0·0	0·0	0·0	55	0·00
19	..	29·632	67·8	49·4	57·8	50·2	..	..	58·6	55·5	7·6	13·4	0·0	+ 1·0	E	SE	0·0	0·0	0·0	55	0·05
20	..	29·465	66 5	55·8	60·6	52·4	..	45·8	58·8	55·5	8·2	11·2	1·0	+ 4·4	SE	SE	0·0	0·0	0·0	190	0·22
○ 21	Full	29·575	66·8	51·9	58·2	48·5	..	43·0	58·8	55·7	9·7	12·8	2·4	+ 2·8	S; SW	SSW	4·0	0·0	0·8	55	0·08
22	In Equator	29·757	69·5	49·8	57·6	52·2	..	41·0	58·8	55·5	5·4	11·4	0·0	+ 2·8	S	SSE	0·0	0·0	0·0	95	0·01
23	..	29·660	65·2	50·8	56·1	54·5	..	44·0	58·8	55·5	1·6	6·0	1·1	+ 1·8	SE	NNE	0·0	0·0	0·0	10	0·23
24	..	29·607	67·3	53·1	58·0	53·8	..	41·5	58·8	56·0	4·2	9·6	1·2	+ 4·3	NNE	NE; S	0·0	0·0	0·0	30	0·10
25	..	29·674	66·7	51·2	57·3	53·5	..	45·3	59·1	56·0	3·8	9·6	0·6	+ 4·1	S	Calm	0·0	0·0	0·0	45	0·00
26	..	29·663	61·2	52·9	55·5	53·9	..	40·0	59·1	56·0	1·6	4·5	0·0	+ 2·7	Calm	S	1·0	0·0	0·6	110	0·20
27	..	29·681	64·3	48·6	56·5	49·3	..	41·4	58·6	55·7	7·2	10·9	5·3	+ 4·2	S	SW	5·0	0·0	0·4	215	0·11
28	Last Qr.	29·720	63·7	51·2	55·7	43·3	..	39·0	59·1	55·7	12·4	16·7	6·5	+ 3·4	W	WSW	6·0	0·0	0·9	155	0·00
29	Greatest Declination N.	29·490	64·3	47·7	55·0	49·0	..	37·0	58·6	55·3	6·0	11·9	1·3	+ 2·5	SW	S; WSW	5·0	0·0	0·3	170	0·05
30	..	29·228	60·7	45·3	51·1	42·5	..	35·0	57·8	54·7	8·6	16·4	2·8	— 2·0	W	SW	5·0	0·0	1·3	150	0·17
Oct. 1	..	29·274	59·3	44·3	51·6	45·4	..	35·0	57·6	54·5	6·2	10·3	4·1	— 2·0	SW; N	N by W	1·0	0·0	0·0	140	0·00
2	Perigee	29·674	58·8	45·6	50·7	45·0	..	40·0	56·6	53·3	5·7	9·0	2·4	— 3·0	N by W	N by W; WSW	0·0	0·0	0·0	25	0·00
3	..	29·749	56·3	45·9	51·2	47·6	..	39·7	56·4	53·3	3·6	6·5	2·1	— 2·4	WSW	Calm	0·0	0·0	0·0	70	0·03
4	..	29·721	59·3	46·2	52·9	48·3	..	33·0	56·4	53·3	4·6	8·6	0·7	— 0·4	Calm	Calm	0·0	0·0	0·0	55	0·00
5	New In Equator	29·625	62·3	42·7	51·4	43·4	..	26·0	56·4	53·0	8·0	13·0	3·4	— 1·1	Calm	W	0·0	0·0	0·0	115	0·00
6	..	29·488	60·0	39·7	52·2	45·4	..	41·0	55·8	52·5	6·8	11·8	2·2	+ 0·5	SSW	S; SSE	4·5	0·0	0·5	250	0·10
7	..	29·350	64·5	49·7	54·6	41·0	..	34·0	54·8	51·5	13·6	18·7	7·9	+ 3·2	SW	WSW	16·0	1·0	4·0	305	0·00
8	..	29·565	61·3	45·9	52·5	42·5	..	25·0	54·4	51·3	10·0	15·5	5·1	+ 1·1	SW	SW	5·0	0·0	0 9	155	0·00
9	..	29·800	54·7	41·1	48·2	44·5	..	27·0	54·1	50·7	3·7	7·2	1·7	— 3·2	SW	SW	0·0	0·0	0·0	70	0·00
10	..	29·875	58·3	39·1	48·2	39·2	..	32·0	53·6	50·5	9·0	12·6	3·8	— 3·2	N	NW; WSW	0·0	0·0	0·0	150	0·06
11	..	29·874	51·3	40·2	44·3	38·3	..	33·0	52·4	49·5	6·0	10·1	2·6	— 7·1	NNW	NNW	7·0	0·0	2·0	215	0·15
12	Greatest Declination S.	30·212	54·5	37·7	45·2	36·9	..	22·0	51·8	48·5	8·3	13·0	3·4	— 6·1	NNW	N	2·0	0·0	0·2	100	0·00
13	First Qr.	30·085	50·3	34·7	43·8	37·8	..	40·8	51·6	48·1	6·0	9·9	0·0	— 7·2	WSW	SW	0·0	0·0	0·0	100	0·00
14	Apogee	29·883	51·0	43·6	46·4	39·7	..	31·3	51·1	47·5	6·7	9·7	5·3	— 4·3	SW	SW	2·0	0·0	0·2	140	0·00
15	..	29·950	51·7	39·9	44·7	35·3	..	27·0	50·6	47·0	9·2	14·1	3·4	— 5·6	W; NW	NW; SW	0·0	0·0	0·0	105	0·00
16	..	29·956	60·3	36·2	49·2	40·6	..	30·0	50·1	46·5	8·6	12·9	2·6	— 0·3	SW	SW	0·0	0·0	0·0	80	0·00
17	..	29·943	61·7	40·2	51·5	43·7	..	33·8	50·1	46·7	7·8	15·0	1·4	+ 2·7	SW	SW	0·0	0·0	0·0	135	0·00
18	..	29·983	63·9	45·8	54·2	49·4	..	37·0	50·6	47·3	4·8	12·1	0·0	+ 6·0	SW	SW	0·0	0·0	0·0	120	0·00
19	In Equator	29·800	58·8	50·3	53·1	48·7	..	34·0	51·1	47·5	4·4	5·9	1·9	+ 5·5	SW	WSW	3·0	0·0	0·3	100	0·00
20	..	29·764	55 9	41·9	47·1	42·0	..	29·0	50·6	46·7	5·1	8·4	1·9	+ 0·1	W	NNE	0·0	0·0	0·0	140	0·00
○ 21	Full	29·851	54·3	37·3	43·8	35·5	63·0	27·0	50·1	46·5	8·3	16·6	4·3	— 2·7	NNE	NNE	3·0	0·0	0·4	135	0·00
22	..	29·886	51·7	35·9	42·8	36·8	64·0	30·0	49·6	46·3	6·0	10·0	4·3	— 3·2	NNE	Calm	0·0	0·0	0·0	85	0·00

MONTH and DAY, 1850.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Aug. 25	o	o	10, ci.-s, li.-cls	10, ci.-s, li.-cls, r
26	o	o	10, cu, cu.-s, ci, shs	7, cu, cu.-s, ci : o
27	o	o	7, ci.-s, li.-cls, sc	7, ci.-s, li.-cls, sc
28	o	o	5, ci.-cu, ci.-s, h.-r : 5, ci.-cu, ci.-s, h	7, ci.-cu, ci.-s, h : 10, ci.-cu, ci.-s, h
29	o	m : o : o	10, cu, ci.-cu, ci.-s, h	10,cu,ci.-cu,ci.-s,h : 10,cu,ci.-cu,ci.-s,h : o
30	o	s	10, ci.-cu, ci.-s, h	10, ci.-cu, ci.-s, h : o
31	o	v	10, ci.-s, h	10, ci.-s, h
Sep. 1	o	o	10, ci.-s, sc, sh : 10, ci.-s, sc	10, ci.-s : 5, ci.-s : 5, ci.-s
2	o	o	10, ci.-s	10, ci.-s : o
3	o	o	7, ci.-s, sc, sh : 7, ci.-s, sc	10, ci.-s, sc
4	o	s	5, cu, cu.-s, ci	5, cu, cu.-s, ci : o
5	o	m	o	o : 5, ci.-s, li.-cls
6	o	s	o	7, cu, cu.-s, li.-cls : o
7	o	m	o : 10, cu, ci.-cu, ci, sc	5, cu, ci.-cu, ci, sc : o
8	w	w	10, ci.-s, sc	10, ci.-s, sc
9	o	o	10, ci.-s	10, ci.-s
10	o	o	10, ci.-s, li.-cls	7, ci.-s, li.-cls : o
11	o	o	10, ci.-s, sc, f	o
12	o	w : o : o	o	3, cu, li.-cls : o
13	o	o	3, cu, cu.-s, ci.-s	5, cu, cu.-s, ci.-s
14	o	m	7, cu, ci.-cu, ci.-s	o : 5, cu, ci.-cu, ci.-s
15	o	o	10, ci.-s, sc, sl.-sh : 10, ci.-s, sc	10, ci.-s, sc
16	o	o	10, ci.-s, sc	10, ci. s, sc
17	o	o	10, ci.-s, sc	10, ci.-s, sc
18	o	o	7	o : 5
19	o	m : o : o	10, ci.-s	10, ci.-s : 10, ci.-s, r
20	o	o	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, h.-r
☌ 21	o	o	10, h.-sh, cu.-s, ci.-s, li.-cls	o : 5, cu.-s, ci.-s, li.-cls
22	o : N, s, sps	o : s	10, cu, ci.-cu, ci.-s : 10, cu, ci.-cu, ci.-s, sh	10, cu, ci.-cu, ci.-s
23	N, s	o	10, ci.-s : 10, ci.-s, r	10, ci.-s
24	o	m : o : o	10, ci.-s	10, ci.-s, h.-sh : 10, ci.-s
25	o	s : o : o	10, th.-f, cu, ci.-s, h	7, cu, ci.-s, h : 5, cu, ci.-s, h
26	o	o	10, ci.-s : 10, ci.-s, r	10, ci.-s, r : o : 10, ci.-s
27	o	N, s, sps : o	7, fr.-shs	5, fr.-shs : 10, fr.-shs
28	o	o	5	5 : 10 : o
29	o	o	10, ci.-s	10, ci.-s, h.-sh : 10, ci.-s, sl.-r
30	o	o	10, cu, cu.-s, ci.-s, sc, r	10, cu, cu.-s ci.-s, sc : 5, l, cu, cu.-s, ci.-s, sc
Oct. 1	o	N, s : m	5, cu, ci.-s, sc	7, cu, ci.-s, sc, sl.-shs : o, a
2	s	s	10, cu, ci.-cu, ci.-s, h	7, cu, ci.-cu, ci.-s, h : o
3	o	s	10, ci.-s : 10, ci.-s, r	10, ci.-s
4	o	s	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : 10, sl.-r, ci.-cu, ci.-s
5	m	m	8	8 : 5, l : o
6	o	o	5, cu, ci.-s, li.-cls, sc	5, cu, ci.-s, li.-cls, sc : 10, cu, ci.-s, li.-cls, sc, sl.-r
7	o	o	o	o : o
8	o	o	5, cu, ci.-cu, ci.-s	7, cu, ci.-cu, ci.-s
9	o	o	10, ci.-cu, s, h	10, ci.-cu, s, h, f
10	o	s	o	5, cu, ci.-s : 10, sh, cu, ci.-s
11	o	N, s, g. cur : o	5, cu, ci.-cu, ci.-s; sc, h.-r	5, sq.-w.-r, cu, ci.-cu, ci.-s, sc, sl.-shs
12	o	o	o	7, cu, ci.-cu, ci, h : o
13	o	o	10, ci.-s, f	10, ci.-s
14	o	o	10, ci.-s	10, ci.-s
15	s : o	o	10, ci.-cu, ci, h	7, ci.-cu, ci, h : 5
16	o	o	o	o
17	o	o	10	10 : o
18	o	o	10, th -f	o : 5, ci.-cu, ci, li.-cls : 5, ci.-cu, ci, li.-cls
19	o	o	10, ci.-s	10, ci.-s
20	o	o	10. ci.-s, sl.-r	10, ci.-s : 10, ci.-s, lu -ha
☌ 21	o	o	o	7, cu, ci, sc : o
22	o	o	o	10, ci.-cu, ci, li.-cls, sc

MONTH and DAY, 1850.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	From 1 Diffs. Greatest.	From 1 Diffs. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 7 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Wind as deduced from Anemometers. Osler's. General Direction. P. M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Oct. 23	..	29·073	47·3	37·9	41·8	39·4	55·0	35·0	49·2	45·5	2·4	3·6	0·0	— 3·7	SW	N	0·0	0·0	0·0	75	0·74
24	..	29·156	43·3	37·2	38·6	36·8	49·0	36·0	48·6	44·7	1·8	4·5	0·0	— 6·5	NW; W	ESE; NE	0·0	0·0	0·0	140	0·15
25	..	29·331	46·6	38·3	40·7	36·2	51·0	27·8	48·2	44·5	4·5	8·1	2·4	— 4·0	NE	NE	0·0	0·0	0·0	40	0·01
26	Greatest Declination N.	29·573	48·3	36·1	41·1	38·3	51·0	18·0	48·1	44·3	2·8	9·0	1·8	— 3·6	N	N	0·0	0·0	0·0	85	0·00
27	..	29·680	48·3	31·5	40·2	38·3	..	30·0	47·2	43·5	1·9	7·5	0·0	— 3·0	SW	SW	0·0	0·0	0·0	145	0·00
28	Last Qr.	29·215	49·3	42·1	43·6	41·7	51·0	23·0	46·8	43·5	1·9	4·8	0·0	— 1·8	SW	Calm; N	0·0	0·0	0·0	80	0·01
29	Perigee	29·432	48·7	34·4	40·1	34·3	52·0	23·0	45·6	43·0	5·8	11·5	2·5	— 6·1	N; NW	NW	0·0	0·0	0·0	110	0·00
30	..	29·563	51·2	33·7	43·1	40·8	53·0	34·0	45·6	43·0	2·3	6·9	0·0	— 3·5	SW	SW; W	0·0	0·0	0·0	150	0·00
31	..	29·775	55·5	44·1	47·6	43·9	58·0	33·0	46·1	43·5	3·7	10·0	1·4	+ 0·9	W	SW	0·0	0·0	0·0	120	0·00
Nov. 1	In Equator	29·852	60·5	45·1	53·5	50·9	63·0	42·0	46·6	44·3	2·6	8·8	0·0	+ 6·9	SW	WSW	2·0	0·0	0·2	200	0·00
2	..	29·859	61·3	52·9	56·0	51·8	63·8	31·4	47·4	45·0	4·2	8·5	1·8	+ 9·8	SW	SW	4·0	0·0	2·0	170	0·00
3	..	29·953	59·3	43·4	52·5	48·7	..	38·0	48·6	45·3	3·8	10·3	2·4	+ 6·5	WSW	SW; SSW	0·0	0·0	0·0	230	0·00
4	New	29·727	57·3	45·4	51·0	44·9	58·0	34·0	49·1	45·7	6·1	11·0	2·0	+ 4·9	SW	W	7·0	0·0	2·0	250	0·19
5	..	29·880	57·3	43·4	51·1	45·3	..	38·0	49·1	45·5	5·8	8·6	4·2	+ 4·8	SW	SW	5·0	0·0	2·0	240	0·00
6	..	29·975	58·3	45·9	50·8	45·1	59·0	35·2	48·6	45·3	5·7	13·3	0·9	+ 4·5	WSW	W	2·0	0·0	0·0	110	0·00
7	..	29·937	57·3	44·1	50·5	45·5	58·8	43·0	49·1	45·5	5·0	9·3	2·2	+ 4·2	SW	SW	5·0	0·0	1·3	245	0·00
8	Greatest Declination S.	29·919	54·0	43·1	47·8	39·7	..	26·0	49·1	45·3	8·1	14·0	2·2	+ 1·6	SW	W	4·0	0·0	1·8	150	0·00
9	..	30·194	55·3	37·9	47·9	42·4	..	40·0	48·6	45·5	5·5	8·4	3·0	+ 1·9	SW	SW	0·0	0·0	0·0	150	0·00
10	..	30·103	57·5	50·7	53·7	50·1	60·0	43·0	49·4	46·0	3·6	7·6	3·4	+ 8·0	SW	WSW	3·0	0·0	0·0	190	0·00
11	Apogee First Quarter.	29·952	59·0	49·3	53·1	48·1	61·0	44·0	49·6	46·5	5·0	9·5	2·1	+ 7·8	WSW	WSW	3·5	0·0	0·7	205	0·00
12	..	29·897	58·0	44·9	50·8	44·0	59·8	22·0	50·1	46·5	6·8	11·6	3·0	+ 6·0	WSW	N	0·0	0·0	0·0	70	0·00
13	..	29·897	46·5	34·7	40·6	37·5	50·0	20·0	49·6	46·1	3·1	6·9	0·0	— 3·7	Calm	W; N	0·0	0·0	0·0	70	0·00
14	..	30·099	47·7	32·5	38·8	32·8	51·0	14·0	48·8	45·5	6·0	12·1	3·1	— 5·2	N	N	0·0	0·0	0·0	55	0·00
15	..	30·120	45·3	27·9	38·4	33·8	47·8	31·0	47·6	44·3	4·6	8·7	3·1	— 5·4	Calm	SW	0·0	0·0	0·0	100	0·00
16	In Equator	29·935	54·0	41·6	48·3	46·3	55·0	30·8	47·6	44·5	2·0	4·8	1·5	+ 4·6	S	SW	0·0	0·0	0·0	145	0·09
17	..	29·960	48·7	36·2	43·2	37·9	50·0	40·0	47·6	44·5	5·3	9·2	3·1	— 0·4	WSW	SW	0·0	0·0	0·0	85	0·00
18	..	29·622	49·3	43·6	45·2	40·6	52·0	27·0	47·1	43·7	4·6	5·5	0·5	+ 1·7	S; SE	SE	0·0	0·0	0·0	160	0·39
○ 19	Full	28·902	55·7	45·7	50·2	42·9	57·0	40·0	47·1	44·0	7·3	10·0	5·0	+ 6·7	SSW	SW	9·0	0·0	3·0	260	0·10
20	..	28·667	51·0	45·7	46·9	44·8	53·8	41·0	46·8	43·5	2·1	4·0	1·9	+ 3·5	SSW	SW; N	3·5	0·0	0·7	180	0·15
21	..	29·465	49·0	39·9	43·4	38·6	51·0	33·8	47·1	43·5	4·8	6·9	2·9	0·0	N	WNW; SW	3·5	0·0	1·3	85	0·06
22	Greatest Declination N.	29·421	54·5	39·1	48·7	48·1	57·6	46·0	47·6	44·3	0·6	2·2	0·0	+ 5·3	SSE; S	S; SW	3·0	0·0	0·4	235	0·20
23	Perigee	29·341	56·0	45·7	49·6	47·0	..	37·0	47·6	44·5	2·6	4·6	1·1	+ 6·1	SW	SW	5·5	0·0	1·5	245	0·12
24	..	28·987	54·5	43·7	51·0	47·2	..	38·0	48·4	44·7	3·8	4·6	..	+ 7·5	SSW	SW	19·0	0·0	6·0	420	0·64
25	..	29·023	53·0	42·1	46·7	40·1	..	31·0	48·1	44·5	6·6	11·2	2·9	+ 3·2	SW	SW	5·0	0·0	2·8	195	0·02
26	Last Qr.	29·252	45·3	37·9	41·3	39·3	..	35·0	48·1	44·3	2·0	4·1	1·7	— 2·3	SW; S	S	0·0	0·0	0·0	40	0·01
27	..	29·604	42·0	35·9	38·8	35·8	..	26·0	47·4	43·7	3·0	6·0	1·2	— 4·8	N	N	3·0	0·0	1·9	85	0·01
28	..	30·117	43·0	32·1	36·1	33·5	..	22·0	46·4	42·5	2·6	4·8	1·3	— 7·5	N	NE; E	0·0	0·0	0·0	105	0·00
29	In Equator	30·147	43·5	29·7	35·7	28·4	..	22·5	45·1	41·5	7·3	12·0	2·6	— 7·9	NE	E; NE	0·0	0·0	0·0	40	0·00
30	..	30·034	37·0	29·2	33·8	29·9	..	32·0	43·8	39·5	3·9	6·3	3·1	— 9·7	NE	Calm	0·0	0·0	0·0	35	0·00
Dec. 1	..	30·100	39·0	34·0	36·9	33·9	40·0	32·0	43·1	38·5	3·0	5·0	0·0	— 6·4	N; NE	E	0·0	0·0	0·0	80	0·02
2	..	30·172	46·5	36·5	42·3	37·7	48·0	35·0	42·6	38·5	4·6	6·9	0·0	— 0·7	ESE; SE	SE	0·0	0·0	0·0	125	0·00
3	New	30·050	43·5	38·5	40·5	37·9	44·0	31·0	42·6	38·5	2·6	3·6	0·0	— 1·8	SSE	SSW; SSE	0·0	0·0	0·0	80	0·00
4	..	29·982	50·0	35·5	46·5	45·2	48·0	26·0	42·4	38·1	1·3	3·7	0·0	+ 5·3	SSE	SW	0·0	0·0	0·0	90	0·05
5	..	30·187	54·0	46·0	50·1	48·8	54·0	43·0	42·6	38·5	1·3	2·6	0·0	+ 9·6	SW; SSE	SW	0·0	0·0	0·0	70	0·00
6	Greatest Declination S.	30·290	50·5	36·0	41·7	41·6	54·0	29·0	42·6	38·5	0·1	0·9	0·0	+ 2·0	SW	SE	0·0	0·0	0·0	30	0·00
7	..	30·240	44·2	33·0	39·9	39·2	44·0	33·5	42·4	39·0	0·7	1·9	0·0	+ 0·5	Calm	E	0·0	0·0	0·0	15	0·00
8	..	30·232	38·0	34·0	35·5	35·5	..	31·0	42·1	39·0	0·0	0·0	0·0	— 3·7	SE	Calm	0·0	0·0	0·0	25	0·00
9	Apogee	30·219	38·5	33·0	34·9	34·9	38·0	32·0	41·6	39·0	0·0	0·0	0·0	— 4·1	Calm	Calm	0·0	0·0	0·0	30	0·00
10	..	30·115	34·5	31·0	32·8	32·8	35·0	33·0	41·6	39·0	0·0	0·8	0·0	— 6·2	SE	SW	0·0	0·0	0·0	10	0·00
11	First Qr.	29·897	41·8	38·0	40·1	38·7	43·0	35·0	41·6	38·7	1·4	2·2	0·7	+ 1·0	SE	SE	0·0	0·0	0·0	105	0·01
12	..	29·870	50·0	41·9	45·9	45·7	52·0	33·0	41·6	38·7	0·2	2·2	0·0	+ 6·5	SW	SW	0·0	0·0	0·0	80	0·04
13	In Equator	29·704	47·2	44·0	45·3	44·4	..	34·0	41·6	38·7	0·9	2·3	0·0	+ 5·5	SSW	SSW	0·0	0·0	0·0	150	0·00
14	..	29·511	51·7	40·0	46·2	42·1	..	36·0	42·1	39·3	4·1	5·8	1·9	+ 6·0	SW	SW	8·0	0·0	2·4	295	0·38
15	..	29·063	56·5	39·2	48·9	45·2	..	36·0	42·8	39·5	3·7	5·5	0·0	+ 8·5	SW	SW	6·0	0·0	3·0	260	0·25
16	..	29·051	47·5	40·6	43·2	38·4	..	32·0	43·1	40·0	4·8	6·9	1·0	+ 2·6	N; W	SW	9·6	0·0	3·6	295	0·28
17	..	29·029	43·5	35·9	39·5	34·9	..	28·0	42·6	39·5	4·5	9·6	1·3	— 1·2	SW	SW	6·0	0·0	3·0	170	0·01
18	..	29·242	39·8	32·9	36·0	34·2	..	28·0	42·4	39·3	1·8	5·0	0·6	— 4·4	W	W; SE	1·5	0·0	0·1	65	0·05
◑ 19	Full	29·352	39·3	32·7	35·2	33·9	..	31·0	41·4	38·0	1·3	3·0	0·0	— 4·8	WSW	NNE	0·0	0·0	0·0	75	0·12
20	Greatest Declination N.	30·027	38·5	30·7	34·5	31·1	..	9·0	40·4	36·7	3·4	5·0	0·0	— 5·0	NW	N	0·0	0·0	0·0	30	0·00

MONTH and DAY, 1850.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Oct. 23	o	o	10, ci.-s	10, ci.-s, h.-r : 10, ci.-s
24	o : Nw : o	o	10, ci.-s, r	10, ci.-s, r
25	o	o : w : o	10, ci.-s, sc	10, ci.-s, sc : 10, r, ci.-s, sc
26	o	o : o : m	10, ci.-s, sc	10, ci.-s, sc : o
27	o	o	o	o : 10, ci.-s, sl.-r
28	o	o	10, cu, ci, h : 10, cu, ci, h, sl.-r	7 : o
29	o	o : o : m	10, h, ci.-cu, ci, h	5, ci.-cu, ci, h : o
30	o	o	10, ci.-s, sc, sl.-r	10, ci.-s, sc, sl.-r
31	o	m : o : o	10, ci.-cu, ci.-s, h	10, ci.-cu, ci.-s, h
Nov. 1	o	o	10, ci.-s, sc, sl.-r	10, ci.-s, sc : 10, ci.-s, sc : o
2	o	o	10	10 : o
3	o	o	o	3, ci.-s : 10, ci.-s, sc
4	o	o	10, cu, ci, ci.-s, sc, fr.-sqs	5, cu, ci, ci.-s, sc : o
5	o	o	10, ci.-s, sc	10, ci.-s, sc : o
6	o	o	o	7, ci.-cu, ci, li.-cl : o
7	o	o	10, ci.-s, li.-cls, sc	10, ci.-s, li.-cl, sc
8	o	o	7, ci.-cu, ci, sc	o
9	o	o	o : 10, ci.-s : 10, ci.-s	10, ci.-s
10	o	o	10, ci.-s, sc	10, ci.-s, sc
11	o	o	7, ci.-cu, ci.-s	3, ci.-cu, ci.-s
12	o	o	10, ci.-cu, ci, sc	7, ci.-cu, ci, sc
13	o	o	10, ci.-cu, ci.-s, sc, th.-f	10, ci.-cu, ci.-s, sc
14	o	o	o, f	o, f
15	o	o	10, ci.-cu, ci.-s, sc, h	10, ci.-cu, ci.-s, sc, h
16	o	o	10, r	10, r : 10, r : o
17	o	o	10, ci.-s, li.-cls, sc	10, ci.-s, li.-cls, sc
18	o	o	10, ci.-s, sc, r	10, ci.-s, sc, r
☽ 19	o	o	3, ci.-s, sc	7, ci.-s, sc : 10, ci.-s, sc, r
20	o	o	5, ci.-s, sc	10, ci.-s, sc, r : 10, ci.-s, sc
21	o	o	10, ci.-s, sc	10, ci.-s, sc
22	o	o	10, ci.-s, sc, r	10, ci.-s, sc, r
23	o	o	10, ci.-s, sc, r	10, ci.-s, sc : 5, ci.-s, sc : o
24	o	o	10, fr.-h.-sqs	10, fr.-h.-sqs, g: 10, fr.-h.-sqs : o
25	o	o	o	10, cu, ci.-cu, ci.-s : 10, cu, ci.-cu, ci.-s, r : o
26	o	o	10, ci.-s	10, ci.-s
27	o	o	10, ci.-s.-shs	10 : 5 : o
28	o	o	o	o
29	o	o	o	o
30	m	m	10, ci.-s	10, ci.-s
Dec. 1	o	o	10	10 : 10, oc.-
2	o	o	10, ci.-s	10, ci.-s
3	o	o	10, ci.-s	10, ci.-s
4	o	o	10, ci.-s	10, ci.-s, m.-r
5	o	o	8, ci.-s, f	o, f
6	m : o	o	o, f	o, f : 10, f
7	m : o	▫	10	10 : o, f
8	s	o	10, f	10, f
9	o	o	10, ci.-s, f	10, ci.-s, f
10	o	s	10, ci.-s, th.-f	10, ci.-s, th.-f
11	o	s	10, ci.-s	10, ci.-s
12	o	o : o : m	10, ci.-s, oc.-r	10, ci.-s : o
13	s	s	10, ci.-s, ci, li.-sc	7, ci.-s, ci, li.-sc : 4, ci.-s, ci, li.-sc
14	o	o	7, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, h.-r
15	o	o	10, ci.-s, sc, fr.-r	10, ci.-s, sc, fr.-r
16	o	o	o	9, ci.-s, oc.-r
17	o	o	10, ci.-s, sc	7, ci.-s, sc, oc.-r
18	o	o	o	3, ci.-s, h : 10, ci.-s, h, h.-r
☾ 19	▪	Ns, sp	10, ci.-s	10, ci.-s, h, su, h.-r : o
20	s	o	o	o

MONTH and DAY, 1850.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	From 4 Diffs. Greatest.	From 4 Diffs. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Osler's. General Direction. P. M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Dec. 21	Perigee	30·120	39·5	24·2	33·0	28·8	..	21·0	39·6	36·5	4·2	7·0	0·0	— 6·0	Calm	S	0·0	0·0	0·0	45	0·00
22	..	30·398	40·5	31·9	34·5	34·2	43·0	27·0	38·6	35·5	0·3	1·7	0·0	— 4·0	N	N; W	0·0	0·0	0·0	30	0·00
23	..	30·464	38·9	29·9	33·7	32·7	42·0	25·0	38·1	34·7	1·0	3·8	0·0	— 4·7	SW	W	0·0	0·0	0·0	75	0·00
24	..	30·246	35·5	29·7	33·7	31·9	38·0	28·0	37·1	34·5	1·8	3·0	1·3	— 4·6	SW	SW	3·0	0·0	0·2	125	0·06
25	Last Qr.	29·946	42·7	36·7	39·6	34·3	45·0	29·3	36·6	34·3	5·3	6·7	0·0	+ 1·6	SW	SW	3·3	0·0	0·3	100	0·00
26	In Equator	30·066	49·0	35·7	41·7	40·0	53·0	29·0	36·1	33·5	1·7	5·1	1·2	+ 3·8	SW	SW; N	0·0	0·0	0·0	30	0·00
27	..	30·078	47·3	41·9	44·1	40·4	51·0	27·0	36·6	34·3	3·7	6·4	1·8	+ 6·2	W	WSW	0·0	0·0	0·0	70	0·00
28	..	30·147	48·5	36·4	40·9	35·9	52·0	29·5	37·1	34·7	5·0	6·5	2·6	+ 2·7	W; NW	W	1·5	0·0	0·1	115	0·00
29	..	30·019	47·3	36·3	44·0	38·5	51·0	37·0	38·4	35·3	5·5	7·2	4·0	+ 5·6	WSW	WSW	2·4	0·0	0·1	175	0·00
30	..	29·838	50·8	42·4	47·1	44·7	51·5	39·0	40·1	36·5	2·4	4·4	1·2	+ 8·9	WSW	SW	3·6	0·0	1·5	195	0·00
31	..	29·666	54·1	43·2	49·6	48·5	55·0	43·5	41·8	38·0	1·1	4·0	0·2	+11·6	SW	SW	5·0	0·0	2·5	260	0·03

MONTH and DAY, 1850.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Dec. 21	0	0	10, h	10, th.-r
22	0	0	10, ci.-s	10, ci.-s, th.-f
23	0	0	7, ci.-s, li.-sc, h	10, ci.-s, li.-sc, h : 7, ci.-s, li.-sc, h
24	0	0	10, ci.-s, fr.-m.-r.	10, ci.-s, fr.-m.-r
25	0	0	5, ci.-s, h	0
26	0	0	10, ci.-s	10, ci.-s
27	0	0	10, ci.-s, h	0 : 10, ci.-s, h
28	0	0	5, ci.-s, sc : 10, ci.-s, sc	10, ci,-s, sc : 0
29	0	0	10, ci.-s	10, ci.-s, r
30	0	0	10, ci.-s	10, ci.-s
31	0	0	10, ci.-s, fr.-m.-r	10, ci.-s, fr.-m.-r

MAXIMA AND MINIMA READINGS OF THE BAROMETER.

The following table contains the highest and lowest readings of the Barometer, reduced to 32° Fahrenheit, extracted from the observations taken by the eye. There is good reason to believe that these readings do not differ much from the true maxima and minima, although the times may sometimes be sensibly erroneous.

MAXIMA.			MINIMA.			MAXIMA.			MINIMA.		
Approximate Mean Solar Time, 1850.		Reading.	Approximate Mean Solar Time, 1850.		Reading.	Approximate Mean Solar Time, 1850.		Reading.	Approximate Mean Solar Time, 1850.		Reading.
d h m		in.	d h m		in.	d h m		in.	d h m		in.
January	8. 0. 0	30·223	January	5. 0. 0	29·322	June	18. 21. 0	30·253	June	14. 9. 0	29·319
	17. 21. 0	29·863		15. 3. 0	29·272		29. 21. 0	29·846		28. 9. 0	29·517
	22. 0. 0	30·401		18. 21. 0	29·336	July	5. 9. 0	30·031	July	4. 0. 0	29·617
	30. 9. 0	30·218		26. 3. 0	29·283		11. 21. 0	29·981		6. 22. 30	29·554
February	8. 9. 0	29·602	February	5. 21. 0	28·803		30. 0. 0	30·083		25. 9. 0	29·487
	10. 8. 30	29·980		9. 3. 0	29·306	August	13. 21. 0	29·879	August	8. 9. 0	29·534
	13. 9. 0	30·113		12. 0. 0	29·125	September	7. 22. 20	30·302		21. 3. 0	29·445
	25. 0. 0	30·282		15. 21. 0	29·796		21. 22. 20	29·777	September	20. 9. 0	29·379
March	1. 9. 0	30·237		28. 3. 0	30·042	October	3. 9. 0	29·774		30. 9. 0	29·148
	5. 21. 0	30·474	March	3. 11. 30	29·542		12. 9. 0	30·247	October	6. 21. 0	29·274
	11. 21. 0	30·452		9. 3. 0	30·062		17. 21. 0	30·025		14. 9. 0	29·815
	17. 9. 0	30·222		16. 3. 0	30·058		21. 21. 0	30·002		20. 11. 0	29·767
	21. 9. 0	30·118		19. 3. 0	29·987		26. 22. 0	29·767		23. 3. 0	29·040
	28. 22. 20	30·031		23. 3. 0	29·394	November	2. 22. 30	30·056		28. 3. 0	29·184
April	5. 9. 0	29·757	April	4. 0. 0	28·890		6. 9. 0	30·016	November	3. 21. 0	29·650
	13. 22. 20	29·762		8. 9. 0	29·253		8. 21. 0	30·222		7. 21. 0	29·832
	18. 21. 0	29·960		16. 3. 0	28·982		14. 9. 0	30·191		13. 3. 0	29·875
	23. 21. 0	30·049		20. 9. 0	29·371		21. 9. 0	29·574		20. 0. 0	28·592
	28. 21. 0	30·208		25. 3. 0	29·836		28. 9. 0	30·221		24. 4. 31	28·902
May	2. 21. 0	30·244	May	1. 3. 0	29·923	December	5. 21. 0	30·307	December	3. 21. 0	29·958
	13. 9. 0	30·023		7. 21. 0	29·244		15. 21. 0	29·178		15. 8. 0	28·841
June	1. 22. 20	30·252		24. 0. 0	29·288		23. 0 0	30·482		16. 9. 0	28·899
	8. 22. 30	30·081	June	6. 9. 0	29·444		27. 21. 0	30·166		24. 22. 30	29·929

READINGS OF THE THERMOMETERS SUNK IN THE GROUND.

(I.)—Reading of a Thermometer whose bulb is sunk to the depth of 25·6 feet (24 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month, 1850.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·84	51·25	50·40	49·59	49·00	48·78	48·85	49·44	*S*	51·03	51·55	*S*
2	51·82	51·24	50·37	49·58	49·04	*S*	48·87	49·45	50·29	51·04	51·57	51·64
3	51·83	*S*	*S*	49·55	48·98	48·76	48·87	49·47	50·30	51·06	*S*	51·64
4	51·83	51·15	50·33	49·54	48·98	48·76	48·88	*S*	50·34	51·09	51·58	51·67
5	51·77	51·12	50·26	49·52	*S*	48·75	48·90	49·55	50·40	51·12	51·63	51·68
6	*S*	51·09	50·25	49·48	48·93	48·74	48·93	49·56	50·38	*S*	51·61	51·63
7	51·74	51·05	50·20	*S*	48·93	48·74	*S*	49·64	50·42	51·17	51·60	51·64
8	51·72	51·06	50·17	49·45	48·94	48·74	48·94	49·63	*S*	51·16	51·62	*S*
9	51·75	51·03	50·15	49·43	48·94	*S*	48·98	49·64	50·46	51·18	51·61	51·55
10	51·69	*S*	*S*	49·40	48·90	48·75	48·97	49·72	50·50	51·20	*S*	51·56
11	51·65	50·95	50·09	49·43	48·89	48·76	48·97	*S*	50·52	51·20	51·65	51·55
12	51·64	50·94	50·07	49·37	*S*	48·78	49·02	49·71	50·58	51·24	51·65	51·54
13	*S*	50·87	50·06	49·35	48·87	48·74	49·04	49·73	50·58	*S*	51·61	51·58
14	51·60	50·85	50·04	*S*	48·85	48·73	*S*	49·75	50·62	51·30	51·62	51·57
15	51·56	50·85	49·98	49·30	48·83	48·72	49·08	49·80	*S*	51·27	51·63	*S*
16	51·55	50·80	49·95	49·28	48·83	*S*	49·12	49·83	50·66	51·32	51·62	51·55
17	51·55	*S*	*S*	49·78	48·83	48·80	49·12	49·87	50·70	51·34	*S*	51·53
18	51·53	50·74	49·90	49·26	48·82	48·82	49·12	*S*	50·73	51·35	51·65	51·51
19	51·54	50·70	49·89	49·24	*S*	48·82	49·14	49·90	50·75	51·37	51·66	51·50
20	*S*	50·68	49·85	49·23	48·77	48·83	49·15	49·87	50·75	*S*	51·65	51·50
21	51·45	50·64	49·83	*S*	48·81	48·83	*S*	49·90	50·80	51·38	51·65	51·48
22	51·44	50·62	49·80	49·19	48·78	48·82	49·23	49·37	*S*	51·40	51·66	*S*
23	51·44	50·57	49·75	49·15	48·78	*S*	49·24	50·00	50·85	51·40	51·67	51·46
24	51·40	*S*	*S*	49·15	48·77	48·87	49·25	50·03	50·87	51·40	*S*	51·40
25	51·42	50·51	49·71	49·15	48·78	48·85	49·25	*S*	50·90	51·42	51·66	Christ. Day.
26	51·40	50·47	49·68	49·11	*S*	48·47	49·28	50·08	50·92	51·34	51·64	51·44
27	*S*	50·45	49·67	49·09	48·82	48·85	49·29	50·12	50·94	*S*	51·64	51·45
28	51·30	50·40	49·65	*S*	48·82	48·86	*S*	50·14	50·96	51·48	51·64	51·43
29	51·31		Good Friday	49·05	48·82	48·87	49·37	50·15	*S*	51·47	51·64	*S*
30	51·26		49·63	49·04		*S*	49·38	50·20	51·00	51·49	51·62	51·44
31	51·23		*S*				49·42	50·23		51·52		51·49

The letter *S* denotes that the day was Sunday.

April 17. The reading is evidently 0°·5 too high.

June 26. The reading is evidently erroneous; it probably should be 48°·87.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays, and a few other days). During that interval of time, the monthly mean of the readings at noon was found in twelve instances to be greater by 0°·01 than the monthly mean of all the observations; in one instance the excess was 0°·02, and in another it amounted to 0°·03. In all the remaining cases the means of the noon observations agreed precisely with the means of all the observations.

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12·8 feet (12 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month, 1850.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	50·17	47·33	46·38	46·20	46·58	47·96	50·66	53·19	*S*	54·80	53·64	*S*
2	50·09	47·24	46·42	46·17	46·74	*S*	50·80	53·25	54·84	54·75	53·58	51·[illegible]
3	50·04	*S*	*S*	46·15	46·68	48·08	50·80	53·32	54·84	54·77	*S*	51·77
4	49·96	47·05	46·46	46·11	46·75	48·16	50·95	*S*	54·88	54·77	53·40	51·75
5	49·84	46·97	46·35	46·08	*S*	48·21	51·08	53·52	54·93	54·79	53·38	51·72
6	*S*	46·90	46·37	46·04	46·91	48·28	51·21	53·54	54·88	*S*	53·27	51·60
7	49·64	46·86	46·36	*S*	46·96	48·38	*S*	53·64	54·91	54·78	53·58	51·56
8	49·54	46·85	46·46	46·00	46·97	48·45	51·37	53·65	*S*	54·74	53·10	*S*

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12 French feet—*continued*.

Day of the Month, 1850.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
9	49·53	46·78	46·37	45·97	47·03	*S*	51·54	53·67	54·88	54·69	53·00	51·28
10	49·37	*S*	*S*	45·97	47·04	48·69	51·56	53·78	54·93	54·68	*S*	51·24
11	49·26	46·73	46·40	46·04	47·06	48·78	51·64	*S*	54·90	54·60	52·93	51·19
12	49·16	46·77	46·36	45·96	*S*	48·94	51·76	53·84	55·00	54·61	52·87	51·20
13	*S*	46·63	46·48	46·10	47·12	48·95	51·85	53·90	54·94	*S*	52·74	51·10
14	48·96	46·66	46·50	*S*	47·13	49·04	*S*	53·95	54·94	54·54	52·68	51·03
15	48·86	46·63	46·40	46·04	47·15	49·12	52·03	54·00	*S*	54·50	52·62	*S*
16	48·77	46·57	46·40	46·04	47·18	*S*	52·13	54·10	54·91	54·53	52·63	50·85
17	48·67	*S*	*S*	46·09	47·22	49·46	52·15	54·19	54·93	54·50	*S*	50·76
18	48·57	46·54	46·42	46·12	47·27	49·57	52·14	*S*	54·93	54·44	52·50	50·64
19	48·54	46·53	46·40	46·15	*S*	49·67	52·22	54·24	54·90	54·40	52·58	50·60
20	*S*	46·53	46·40	46·17	47·29	49·78	52·25	54·28	54·87	*S*	52·42	50·53
21	48·29	46·48	46·40	*S*	47·37	49·88	*S*	54·30	54·88	54·25	52·35	50·44
22	48·22	46·44	46·37	46·25	47·47	49·45	52·46	54·35	*S*	54·18	52·33	*S*
23	48·14	46·38	46·30	46·27	47·46	*S*	52·58	54·44	54·84	54·10	52·27	50·32
24	48·04	*S*	*S*	46·30	47·47	50·17	52·58	54·47	54·84	54·05	*S*	50·28
25	47·95	46·37	46·29	46·38	47·54	50·25	52·62	*S*	54·85	53·97	52·16	Christ. Day.
26	47·85	46·43	46·24	46·40	*S*	50·32	52·74	54·60	54·82	53·97	52·06	50·14
27	*S*	46·36	46·26	46·06	47·72	50·35	52·75	54·66	54·84	*S*	52·04	50·11
28	47·64	46·36	46·25	*S*	47·78	50·44	*S*	54·65	54·82	53·84	51·94	50·03
29	47·56		Good Friday.	46·49	47·86	50·52	52·97	54·69	*S*	53·75	51·90	*S*
30	47·46		46·20	46·56		*S*	53·04	54·74	54·80	53·70	51·33	49·97
31	47·37		*S*				53·15	54·75		53·65		49·88

The letter *S* denotes that the day was Sunday.

April 27. The reading is evidently erroneous; probably it should be 46° ·46.

June 22. The reading seems to be too low by 0° ·5; probably it should be 49° ·95.

November 7. The reading seems to be somewhat too high.

November 30. The reading is evidently erroneous; probably it should be 51° ·83.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be of the same value in three cases as the monthly mean of all the readings; in five cases it was in excess by 0° ·01; in seven cases the excess amounted to 0° ·02; in four cases to 0° ·03; and in one case to 0° ·04.

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6·4 feet (6 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month, 1850.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	46·20	43·10	44·78	44·00	47·40	50·82	56·30	58·15	*S*	56·79	52·10	*S*
2	46·00	43·12	44·80	43·98	47·72	*S*	56·41	58·20	58·60	56·68	51·97	49·79
3	45·87	*S*	*S*	44·00	47·77	51·24	56·42	58·25	58·50	56·60	*S*	49·62
4	45·69	43·15	44·90	44·10	47·80	51·50	56·48	*S*	58·50	56·49	51·71	49·45
5	45·49	43·40	44·78	44·28	*S*	51·79	56·58	58·40	58·50	56·38	51·78	49·30
6	*S*	43·64	44·97	44·48	47·90	51·98	56·67	58·44	58·45	*S*	51·70	49·08
7	45·21	43·68	45·00	*S*	47·97	52·30	*S*	59·00	58·40	56·18	51·69	49·02
8	45·17	43·79	44·97	44·84	48·02	52·58	56·58	58·70	*S*	56·00	51·67	*S*
9	45·12	43·85	44·98	45·00	48·06	*S*	56·62	58·75	57·80	55·87	51·60	48·78
10	44·88	*S*	*S*	45·20	47·98	53·08	56·58	58·75	57·90	55·72	*S*	48·70
11	44·77	43·88	45·00	45·48	48·00	53·25	56·58	*S*	57·70	55·50	51·60	48·60
12	44·60	43·98	45·05	45·59	*S*	53·38	56·58	58·83	57·80	55·40	51·57	48·68
13	*S*	43·95	45·08	45·77	48·08	53·47	56·58	58·90	57·60	*S*	51·44	48·40
14	44·33	43·97	45·13	*S*	48·10	53·58	*S*	58·97	57·48	55·07	51·47	48·38
15	44·20	43·98	45·00	46·00	48·20	53·75	56·68	59·05	*S*	54·83	51·44	*S*
16	44·08	43·90	44·97	46·17	48·34	*S*	56·81	59·12	57·28	54·71	51·44	48·20
17	43·95	*S*	*S*	46·29	48·44	54·12	56·90	59·26	57·25	54·55	*S*	48·10
18	43·80	43·97	44·90	46·40	48·54	54·16	56·98	*S*	57·10	54·30	51·10	48·05

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6 French feet—*continued.*

Day of the Month, 1850.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
19	43·71	44·00	44·88	46·50	*S*	54·16	57·21	59·30	57·79	54·17	51·00	47·97
20	*S*	43·95	44·78	46·62	48·70	54·24	57·38	59·36	57·10	*S*	50·88	47·88
21	43·30	44·20	44·70	*S*	48·88	54·33	*S*	59·39	57·10	53·84	50·74	47·79
22	43·19	44·33	44·62	46·83	48·97	54·40	57·60	59·40	*S*	53·78	50·70	*S*
23	43·21	44·42	44·58	46·97	49·13	*S*	57·70	59·40	57·08	53·60	50·65	47·28
24	43·10	*S*	*S*	47·08	49·38	54·79	57·70	59·30	57·08	53·49	*S*	47·10
25	43·08	44·60	44·50	47·19	49·57	55·03	57·70	*S*	57·08	53·30	50·47	Christ. Day.
26	43·00	44·70	44·49	47·23	*S*	55·22	57·80	59·20	57·00	53·19	50·40	46·65
27	*S*	44·70	44·40	47·27	50·04	55·50	57·80	59·15	57·00	*S*	50·40	46·48
28	42·93	44·70	44·34	*S*	50·12	55·67	*S*	59·00	56·98	52·90	50·38	46·30
29	42·98		Good Friday.	47·40	50·41	55·93	57·80	59·00	*S*	52·58	50·28	*S*
30	43·00		44·12	47·49		*S*	58·00	58·90	56·85	52·40	50·10	46·25
31	43·00		*S*				58·10	58·80		52·22		46·22

The letter *S* denotes that the day was Sunday.

September 19. The reading is evidently too high; probably it should be 57°·09.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be higher than the monthly mean reading, as found from all the observations, by 0°·03.

(IV.)—Reading of a Thermometer whose bulb is sunk to the depth of 3·2 feet (3 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month, 1850.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	40·57	39·63	42·97	41·10	47·90	54·10	60·60	60·92	*S*	56·64	48·58	*S*
2	40·80	40·12	43·03	41·80	48·12	*S*	60·50	61·08	58·88	56·29	48·90	45·48
3	40·98	*S*	*S*	...	47·98	55·30	60·30	61·08	58·80	56·98	*S*	45·43
4	40·17	41·54	43·72	43·30	47·80	55·90	60·20	*S*	58·90	55·70	49·67	45·48
5	40·43	41·57	43·60	43·95	*S*	56·40	60·08	61·50	58·92	55·61	50·02	45·52
6	*S*	41·60	42·28	44·38	48·09	56·78	59·78	61·70	58·67	*S*	49·88	45·78
7	40·20	41·57	43·07	*S*	48·02	57·10	*S*	62·10	58·58	55·11	49·84	45·92
8	39·95	41·30	43·10	45·15	47·78	56·88	59·36	62·19	*S*	54·90	49·80	*S*
9	39·73	41·29	43·20	45·60	47·72	*S*	59·15	62·20	58·10	54·60	49·80	45·60
10	39·40	*S*	*S*	45·90	47·67	56·80	58·90	62·20	57·98	54·30	*S*	45·30
11	39·27	41·67	43·38	46·12	47·81	57·19	58·80	*S*	57·80	53·90	49·80	45·08
12	39·12	41·65	43·30	46·19	*S*	57·72	58·88	62·12	58·00	53·53	50·00	44·88
13	*S*	41·40	43·10	46·29	48·60	57·90	59·19	61·98	57·87	*S*	50·04	44·90
14	38·78	41·08	43·02	*S*	48·89	57·80	*S*	61·77	57·79	52·49	49·72	45·10
15	38·60	40·88	42·89	46·48	49·00	57·40	60·29	61·80	*S*	52·19	49·10	*S*
16	38·40	41·40	42·80	46·60	49·05	*S*	60·87	61·88	57·59	52·08	48·52	45·40
17	38·20	*S*	*S*	46·70	48·97	56·70	60·52	61·89	57·20	51·78	*S*	45·30
18	38·10	42·10	42·00	46·85	49·20	56·73	62·00	*S*	57·78	51·62	48·19	44·90
19	38·07	42·40	41·70	47·00	*S*	56·92	62·30	62·21	57·79	61·74	48·10	44·30
20	*S*	42·00	41·79	47·20	49·80	57·38	62·08	62·11	57·80	*S*	48·28	43·80
21	38·05	43·10	41·90	*S*	50·38	57·82	*S*	61·77	57·95	51·97	48·40	43·25
22	37·98	43·19	42·08	47·50	50·90	58·40	61·81	61·20	*S*	51·69	48·38	*S*
23	37·97	43·29	41·97	47·60	51·64	*S*	62·08	60·67	57·80	51·00	48·30	42·19
24	37·90	*S*	*S*	47·50	52·00	59·68	62·20	60·27	57·75	50·60	*S*	41·88
25	38·08	43·10	41·70	47·39	52·18	60·42	62·30	*S*	57·75	50·24	48·60	Christ. Day.
26	38·42	43·07	41·30	47·35	*S*	60·88	62·19	60·05	57·69	49·90	48·58	41·30
27	*S*	43·03	40·90	47·50	52·56	61·19	61·60	60·10	57·61	*S*	48·19	41·67
28	39·19	42·92	40·70	*S*	52·68	61·42	*S*	59·98	57·38	49·28	47·80	41·88
29	39·08		Good Friday.	47·78	52·87	61·19	61·90	59·97	*S*	49·10	47·19	*S*
30	39·35		40·49	47·85		*S*	60·78	59·80	56·98	48·85	46·40	42·32
31	39·67		*S*				60·95	59·39		48·50		42·70

The letter *S* denotes that the day was Sunday.

March 4 and 5. Both these readings seem to be too high.

July 18, 19, and 20. The readings on these days seem to be too high.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean reading at noon, in the months from April to September, was found to be 0° ·08 higher than the mean of the same months from all the observations, and in the remaining months the excess was 0° ·03.

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of one inch below the surface of the soil, within the box which covers the tops of the deep-sunk Thermometers, at Noon on every Day, except Sundays.

Day of the Month, 1850.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	33 ·0	47 ·0	44 ·8	47 ·8	48 ·0	63 ·6	63 ·0	64 ·8	*S*	54 ·5	53 ·0	*S*
2	38 ·0	49 ·6	48 ·0	51 ·0	48 ·5	*S*	63 ·7	63 ·0	61 ·0	53 ·0	54 ·0	43 ·7
3	38 ·0	*S*	*S*	51 ·0	50 ·0	63 ·0	63 ·5	65 ·0	60 ·0	54 ·0	*S*	43 ·0
4	43 ·0	43 ·0	42 ·0	52 ·0	52 ·8	64 ·8	61 ·8	*S*	60 ·5	54 ·0	55 ·0	45 ·5
5	38 ·0	43 ·0	40 ·0	51 ·0	*S*	64 ·8	61 ·0	68 ·0	58 ·0	54 ·7	50 ·5	49 ·0
6	*S*	43 ·0	43 ·0	49 ·0	47 ·0	63 ·0	63 ·0	67 ·0	58 ·0	*S*	51 ·0	43 ·0
7	34 ·0	41 ·3	44 ·0	*S*	48 ·0	61 ·0	*S*	65 ·0	58 ·5	54 ·5	50 ·0	46 ·0
8	33 ·0	43 ·0	44 ·5	53 ·0	48 ·0	60 ·7	58 ·8	68 ·0	*S*	53 ·0	51 ·0	*S*
9	35 ·0	48 ·0	45 ·0	49 ·8	48 ·0	*S*	60 ·5	64 ·7	57 ·0	52 ·0	47 ·0	39 ·0
10	35 ·5	*S*	*S*	50 ·0	49 ·8	63 ·0	59 ·0	64 ·5	59 ·0	50 ·7	*S*	40 ·0
11	32 ·0	43 ·0	43 ·0	49 ·5	53 ·0	68 ·0	63 ·0	*S*	58 ·0	48 ·3	53 ·0	42 ·0
12	33 ·0	42 ·0	42 ·0	50 ·8	*S*	65 ·2	65 ·0	63 ·0	60 ·0	48 ·0	53 ·0	47 ·0
13	*S*	39 ·0	43 ·0	49 ·0	53 ·0	62 ·0	64 ·7	63 ·0	58 ·0	*S*	45 ·0	45 ·0
14	33 ·0	40 ·0	44 ·0	*S*	50 ·7	59 ·0	*S*	64 ·0	58 ·0	48 ·0	44 ·0	47 ·0
15	31 ·0	48 ·0	43 ·0	49 ·0	50 ·0	55 ·0	71 ·0	64 ·8	*S*	48 ·0	43 ·0	*S*
16	32 ·0	47 ·0	39 ·0	49 ·8	49 ·0	*S*	72 ·0	65 ·5	60 ·0	48 ·0	48 ·0	45 ·0
17	35 ·0	*S*	*S*	51 ·0	53 ·0	60 ·0	72 ·0	67 ·0	60 ·0	52 ·0	*S*	43 ·0
18	34 ·8	45 ·8	39 ·0	51 ·0	55 ·0	61 ·5	66 ·4	*S*	59 ·0	52 ·0	47 ·8	38 ·0
19	41 ·0	47 ·0	43 ·0	51 ·0	*S*	64 ·0	65 ·7	63 ·0	60 ·0	54 ·5	50 ·7	39 ·0
20	*S*	46 ·0	43 ·0	52 ·0	54 ·8	66 ·0	63 ·0	61 ·0	59 ·0	*S*	48 ·5	38 ·0
21	31 ·8	45 ·7	43 ·0	*S*	60 ·0	63 ·0	*S*	60 ·0	60 ·0	48 ·0	48 ·0	38 ·0
22	34 ·0	48 ·0	40 ·0	59 ·0	56 ·6	69 ·1	68 ·0	58 ·0	*S*	47 ·0	48 ·0	*S*
23	35 ·0	44 ·8	40 ·0	48 ·0	58 ·5	*S*	72 ·0	60 ·7	58 ·0	46 ·0	52 ·0	38 ·0
24	37 ·0	*S*	*S*	48 ·0	59 ·0	71 ·0	86 ·3	60 ·0	59 ·0	45 ·0	*S*	38 ·0
25	49 ·0	43 ·0	38 ·0	49 ·8	58 ·0	71 ·5	63 ·0	*S*	58 ·5	44 ·0	50 ·0	Christ. Day.
26	45 ·8	43 ·0	38 ·0	49 ·0	*S*	70 ·0	63 ·0	63 ·0	58 ·0	45 ·0	55 ·0	40 ·0
27	*S*	43 ·0	38 ·0	49 ·8	57 ·5	66 ·2	60 ·0	61 ·0	58 ·0	*S*	45 ·0	43 ·0
28	38 ·0	42 ·0	38 ·0	*S*	58 ·0	64 ·0	*S*	61 ·0	58 ·0	48 ·0	43 ·0	42 ·0
29	43 ·0		Good Friday	50 ·0	59 ·5	63 ·5	63 ·0	59 ·0	*S*	45 ·0	40 ·0	*S*
30	40 ·0		43 ·0	50 ·0		*S*	63 ·3	58 ·0	54 ·7	43 ·0	40 ·0	45 ·0
31	38 ·0		*S*				65 ·5	58 ·0		47 ·0		49 ·5

The letter *S* denotes that the day was Sunday.

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers, whose bulb is placed on a level with their scales, at Noon on every Day, except Sundays.

Day of the Month, 1850.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	31 ·7	51 ·7	50 ·0	52 ·8	47 ·5	73 ·0	67 ·8	65 ·7	*S*	58 ·0	56 ·0	*S*
2	34 ·7	54 ·4	51 ·0	56 ·8	52 ·5	*S*	68 ·0	65 ·8	66 ·0	54 ·0	58 ·0	45 ·0
3	39 ·0	*S*	*S*	56 ·5	55 ·7	71 ·7	63 ·0	67 ·8	63 ·0	55 ·7	*S*	42 ·0
4	45 ·7	46 ·7	41 ·0	55 ·8	55 ·8	75 ·0	61 ·0	*S*	66 ·0	57 ·5	55 ·8	49 ·5
5	37 ·7	44 ·5	43 ·8	55 ·5	*S*	73 ·0	65 ·7	77 ·0	64 ·0	61 ·0	50 ·3	53 ·0
6	*S*	44 ·8	50 ·0	52 ·8	45 ·5	60 ·0	68 ·5	72 ·7	63 ·0	*S*	56 ·0	40 ·5
7	32 ·0	44 ·8	46 ·7	*S*	46 ·5	63 ·8	*S*	72 ·0	67 ·0	58 ·5	54 ·0	45 ·0
8	31 ·7	50 ·0	45 ·0	59 ·0	47 ·5	63 ·0	61 ·4	71 ·4	*S*	58 ·0	53 ·0	*S*
9	33 ·5	50 ·8	45 ·7	52 ·5	51 ·0	*S*	64 ·0	66 ·0	60 ·0	54 ·8	51 ·0	34 ·0
10	32 ·4	*S*	*S*	54 ·8	53 ·0	73 ·8	63 ·0	67 ·0	64 ·0	55 ·0	*S*	36 ·5

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers—*continued.*

Day of the Month, 1850.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
11	30·0	43·0	46·7	52·5	55·4	77·5	71·5	*S*	62·7	48·0	57·0	41·0
12	31·4	42·5	46·7	53·8	*S*	68·5	72·0	67·0	71·0	52·0	56·0	42·0
13	*S*	38·8	49·0	51·7	58·8	62·5	72·0	66·7	66·0	*S*	43·8	46·8
14	28·8	41·0	47·0	*S*	52·0	56·7	*S*	68·0	66·7	48·5	45·0	42·0
15	27·0	57·6	44·0	50·0	51·4	51·7	80·0	67·0	*S*	48·0	44·5	*S*
16	31·0	47·8	41·7	50·0	53·8	*S*	83·0	73·0	63·0	57·5	52·0	46·0
17	33·7	*S*	*S*	55·8	55·8	67·0	79·0	74·0	65·8	59·0	*S*	42·0
18	32·0	49·0	43·0	55·8	58·8	69·5	65·0	*S*	66·0	57·8	48·0	37·0
19	44·5	50·7	48·0	54·8	*S*	70·5	68·0	65·8	65·0	56·0	53·0	36·0
20	*S*	50·0	44·0	55·8	60·0	76·0	65·0	64·4	63·0	*S*	48·0	37·0
21	30·0	48·0	42·8	*S*	70·8	77·0	*S*	61·0	64·8	51·5	46·5	32·4
22	33·8	51·0	43·7	53·6	58·0	78·0	76·6	63·0	*S*	49·8	51·0	*S*
23	36·5	48·0	48·8	51·4	63·0	*S*	84·8	67·0	59·7	48·0	52·5	38·8
24	35·7	*S*	*S*	51·7	66·0	80·0	69·0	65·8	61·0	43·0	*S*	36·0
25	47·5	45·7	39·0	54·0	60·0	81·0	59·0	*S*	64·0	43·0	51·7	Christ. Day.
26	47·0	48·0	36·6	54·0	*S*	76·5	65·8	67·8	57·5	46·2	43·5	41·5
27	*S*	45·5	40·8	53·0	61·0	69·0	57·7	66·5	61·0	*S*	42·0	44·0
28	39·0	41·0	41·7	*S*	61·0	66·0	*S*	63·7	59·2	47·5	41·0	41·0
29	46·4		Good Friday.	55·6	66·0	62·0	67·5	59·0	*S*	46·0	41·0	*S*
30	39·0		48·0	54·8		*S*	66·0	63·0	56·0	45·0	37·5	48·0
31	36·7		*S*				71·7	61·7		49·5		51·5

ABSTRACT OF THE CHANGES OF THE DIRECTION OF THE WIND, AS DERIVED FROM OSLER'S ANEMOMETER.

By *direct* motion, in the following statements, is meant that the change of the direction of the wind was in the order N., E., S., W., N., &c.; by *retrograde* is meant in the order N., W., S., E., N., &c.

		d	h	
1849.	Dec.	31.	12.	The direction of the wind was W.
1850.	Jan.	31.	12.	,, ,, S.S.W., which implies a direct motion of 292½°.
	Jan.	5.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	22.	3.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Jan.	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of January was 652½°.

		d	h	
1850.	Jan.	31.	12.	The direction of the wind was S.S.W.
	Feb.	28.	12.	,, ,, N., which implies a retrograde motion of 202½°.
	Jan.	31.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Feb.	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Feb.	25.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of February was 157½°.

		d	h	
1850.	Feb.	28.	12.	The direction of the wind was N.
	March	31.	12.	,, ,, S.S.E., which implies a retrograde motion of 202½°.
	March	9.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	15.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	17.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	27.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of March was 1957½°.

		d	h	
1850.	March	31.	12.	The direction of the wind was S.S.E.
	April	30.	12.	,, ,, N., which implies a direct motion of 202½°.
	April	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	21.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

CHANGES IN THE DIRECTION OF THE WIND—*continued.*

1850. April 25. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Therefore the whole excess of direct motion in the month of April was 922½°.

1850. April 30. 12. The direction of the wind was N.
May 31. 12. ,, ,, E.N.E., which implies a direct motion of 67½°.
May 2. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
May 9. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
May 19. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
May 21. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
May 22. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
May 23. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
May 24. 3. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
May 29. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Therefore the whole excess of direct motion in the month of May was 67½°.

1850. May 31. 12. The direction of the wind was E.N.E.
June 30. 12. ,, ,, S.W., which implies a retrograde motion of 202½°.
June 5. 3. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
June 17. 3. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
June 20. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
June 28. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of June was 1237½°.

1850. June 30. 12. The direction of the wind was S.W.
July 31. 12. ,, ,, N., which implies a direct motion of 135°.
July 6. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
July 20. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of July was 135°.

1850. July 31. 12. The direction of the wind was N.
August 31. 12. ,, ,, N.W., which implies a retrograde motion of 45°.
August 1. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of August was 315°.

1850. August 31. 12. The direction of the wind was N.W.
Sep. 30. 12. ,, ,, S.W., which implies a retrograde motion of 90°.
Sep. 20. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Sep. 25. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Therefore the whole excess of retrograde motion in the month of September was 90°.

1850. Sep. 30. 12. The direction of the wind was S.W.
Oct. 31. 12. ,, ,, S.S.W., which implies a retrograde motion of 22½°.
Oct. 22. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Oct. 24. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Therefore the whole excess of retrograde motion in the month of October was 22½°.

1850. Oct. 31. 12. The direction of the wind was S.S.W.
Nov. 30. 12. ,, ,, N., which implies a direct motion of 157½°.
Therefore the whole excess of direct motion in the month of November was 157½°.

1850. Nov. 30. 12. The direction of the wind was N.
Dec. 31. 12. ,, ,, S.W., which implies a retrograde motion of 135°.
Dec. 1. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of December was 225°.
The whole excess of direct motion during the year was 5715°. $\simeq 15 \cdot 9$

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1850.

1850, Month.	Monthly Amount of Rain collected in the Gauge.			
	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.	Cylinder partly sunk in the Ground at the Royal Naval Schools.
	in.	in.	in.	in.
January	0·8	1·0	1·2	1·1
February	1·3	1·1	1·4	1·4
March	0·3	0·3	0·4	0·2
April	1·8	2·1	2·3	2·1
May	2·3	2·2	2·3	2·2
June	0·9	0·9	1·0	0·8
July	2·7	2·6	2·8	2·8
August	1·5	1·6	1·7	1·4
September	1·7	1·5	1·4	1·6
October	1·4	1·2	1·6	1·5
November	1·7	1·9	2·2	1·9
December	1·1	1·3	1·4	1·5
Sums	17·5	17·7	19·7	18·5

The gauges at the Royal Observatory were read at 9^h P. M., and the monthly records for the Royal Observatory terminate at 9^h P.M., on the last day of every month. The gauge at the Royal Naval Schools was read at noon on the last day of every month, except in two instances, to be spoken of presently; the results, are not strictly comparable in those instances in which rain has fallen after noon on the last day of the month.

At the Royal Naval Schools the reading was not taken for December 1849; but, at the end of January 1850, the amount accumulated in the two months was found to be $3^{in.}3$. In like manner, the reading was not taken at the end of April, and the amount collected at the end of May was found to be $4^{in.}3$ for April and May. These numbers, when divided in proportion to the monthly falls at the Royal Observatory, give the separate numbers inserted in the table above.

Greenwich Mean Solar Time, or Limits of Time, 1850.	Sign of Electricity, as shewn by Dry Pile Apparatus.	READINGS OF ELECTROMETERS.					Time of Recovery after Discharge.	RONALDS' SPARK-MEASURER.		GALVANOMETER.	
		Single Gold Leaf of Dry Pile Apparatus.	Double Gold Leaf.	Volta (1).	Volta (2).	Henley.		Opening of Spark-measurer, or Length of Spark.	Corresponding Frequency.	The Head of the Needle towards A.	The Head of the Needle towards B.
d h m s d h m s						° °		in.	sp. sec.	° °	°
April 20. 0. 47. 0 to 20. 0. 49. 0	Neg.	B. R.	B. R.	B. R.	B. R.	6	Instantly	0·15	3 in 1	..	..
0. 51. 0 to 0. 53. 30	Pos.	B. R.	B. R.	B. R.	B. R.	..	Instantly	0·20	2 in 1	..	15
0. 55. 0	Neg.	B. R.	B. R.	B. R.	B. R.	..	Instantly	..	...	5	..
0. 59. 0	Neg.	B. R.	B. R.	B. R.	B. R.	..	Instantly	0·10	3 in 2	15	..
May 3. 22. 55. 0 to 3. 22. 59. 0	Neg.	B. R.	B. R.	B. R.	B. R.	15	Instantly	0·25	3 in 2	2	..
4. 1. 0. 0 to 4. 1. 5. 0	Neg.	B. R.	B. R.	B. R.	200	2 to 9	Instantly	0·35	1 in 1	5	..
June 12. 23. 45. 0	Neg.	B. R.	B. R.	B. R.	200	2	Instantly	..	...	..	..
23. 45. 13	Neg.	B. R.	B. R.	B. R.	80	..	Instantly	..	...	..	..
23. 48. 0	Pos.	B. R.	B. R.	B. R.	40	..	Instantly	..	...	..	..
13. 2. 0. 0 to 13. 2. 10. 0	Neg.	B. R.	B. R.	B. R.	B. R.	40	Instantly	0·28	3 in 1	5 to 30	..
13. 2. 11. 0	Pos.	B. R.	B. R.	B. R.	B. R.	10 to 12	Instantly	..	...	..	..
Aug. 12. 0. 42. 0	Pos.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·03	...	..	..
0. 48. 0	Neg.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·08	3 in 2	2	..
Aug. 23. 22. 37. 0	Neg.	B. R.	B. R.	B. R.	B. R.	40	Instantly	0·02	...	5	..
22. 38. 0 to 23. 22. 44. 0	Neg.	B. R.	B. R.	B. R.	B. R.	47	Instantly	0·03	2 in 3	11	..
22. 45. 0	Neg.	B. R.	B. R.	B. R.	B. R.	28	Instantly	0·02	...	3	..
22. 48. 0	Neg.	..	..	15	..	0	..	..	...	..	..
22. 52. 30	Neg.	B. R.	B. R.	B. R.	B. R.	43	Instantly	0·02	...	20	..
22. 55. 0	Neg.	B. R.	B. R.	B. R.	B. R.	30	Instantly	0·02	Volley	8	..
22. 58. 0	0	0	0	0	0	0	..	..	...	..	..
22. 59. 0	Neg.	B. R.	B. R.	B. R.	B. R.	32	Instantly	0·02	Volley	22	..
22. 0. 0 to 23. 23. 2. 0	Neg.	B. R.	B. R.	B. R.	B. R.	20 to 32	Instantly	0·01	...	10	..
23. 3. 0	0	0	0	0	0	..	..	..	...	..	..
23. 4. 0 to 23. 23. 7. 0	Pos.	B. R.	B. R.	B. R.	B. R.	12	Instantly	0·01	...	6	..
23. 10. 0	Pos.	..	..	20	..	..	..	..	...	..	..
23. 11. 0	0	0	0	0	0	..	..	..	...	..	..
Aug. 24. 0. 30. 0 to 24. 0. 32. 0	Neg.	B. R.	B. R.	B. R.	B. R.	40 to 50	Instantly	0·04	Volley	36	..
0. 34. 0 to 24. 0. 37. 0	Neg.	B. R.	B. R.	B. R.	B. R.	30	Instantly	0·02	Volley	..	..
0. 42. 0 to 24. 0. 44. 0	Pos.	B. R.	B. R.	B. R.	B. R.	10 to 20	Instantly	0·14	...	..	3
0. 46. 0	Neg.	B. R.	B. R.	B. R.	B. R.	8	Instantly	0·07	...	..	..
Dec. 19. 1. 30. 0 to 19. 1. 45. 0	Neg.	B. R.	B. R.	B. R.	200	6	Instantly	0·30	3 in 1	..	..
2. 11. 0	Neg.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·07	1 in 1	..	..

The letters B. R. denote that the gold leaf or straws have been deflected from the vertical *beyond the range* to which confidence can be placed in their indications. The greatest inclination considered trustworthy, for all the electrometers except Henley's, is about 20° from the vertical.

WIND.		REMARKS.
From Osler's Anemometer.		
Direction.	Pressure in lbs. per square foot.	
	from lbs. to lbs.	
SW	0 to 2	Rain falling.
SW	0 to 2	Hail and rain falling.
SW	0 to 4	The rain and hail ceased falling.
SW	0 to 2½	Rain again falling: the difference of temperature before and after the squall was 12°.
WSW	..	Rain falling: the rain ceased about 23^h.
NNW	0 to 3½	
SW	0 to 1	
SW	0 to 1	
SW	0 to 1	
WSW	0 to 6½	Squall of wind and rain.
WSW		
S	..	At $12^d.\ 0^h.\ 42^m$ and $0^h.\ 44^m$ distant thunder heard in the N.
S		
SW	..	At $23^d.\ 22^h.\ 35^m$ rain commenced falling. Frequent claps of distant thunder in the E.
SW		
SW	..	At $23^d.\ 22^h.\ 46^m.\ 45^s$ and $22^h.\ 49^m.\ 0^s$ thunder heard in the distance from S. S.W. to S. S. E.: no lightning
SW		seen. At $22^h.\ 53^m.\ 15^s$ there was a volley of sparks, followed immediately by thunder in E.: no lightning
SW		observed.
SW		
SW	..	At $23^d.\ 22^h.\ 57^m.\ 10^s$ thunder in the E.: no lightning seen.
SW	..	Heavy rain, accompanied by thunder.
SW	..	Heavy rain continues.
SW	..	,, ,,
SW	..	The rain still continues heavy.
SW		
SW	..	The rain has ceased. No lightning observed throughout these observations.
SW		
SW	..	The rain lighter.
SW	..	Rain still continues. Thunder in the E.: no lightning observed.
SW	..	The rain has nearly ceased.
NNE	..	Rain falling, accompanied with sleet and large flakes of snow.
NE	..	At $2^h.\ 35^m$ the rain ceased.



APPENDIX.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS.

1851.

ROYAL OBSERVATORY, GREENWICH.

INDICATIONS

OF

MAGNETOMETERS.

1851.

For description of the three Magnetometers, the method of observing by the Telescope, and the method of reducing the observations, the reader is referred to the *Greenwich Magnetical and Meteorological Observations* for 1847, Introduction, page i to xlii; and to corresponding parts of the preceding volumes.

During the year 1851, Telescope-Observations of the Magnetometers have usually been made four times every day, except on Sundays, on which days two observations only have been taken; but, though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite, by which the DECLINATION MAGNET is observed, corresponding to the Astronomical Meridian, on January 9, February 6, 17, April 5, 9, May 8, June 2, July 10, 15, August 18, 21, 29, October 16, November 12, 20, and December 4.

Observations of the angle of torsion of the HORIZONTAL FORCE MAGNETOMETER were made on 1850, December 26, and 1851, January 8. The angle determined was 42°. 58′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on 1850, December 26, and 1851, January 8; and the general conclusion was, that the scale-readings were nearly identical and had nearly the usual value when the reading of the torsion-circle was 144°. 30′ (marked end West); and 229°. 48′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) is 144°. 30′.

The number used for the variation of horizontal force for a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·002056.

The correction for temperature is $0{\cdot}0000809\ (t-32) + 0{\cdot}000000762\ (t-32)^2$, where t is the temperature in degrees of Fahrenheit's scale. This is *not* applied to any of the results of observation.

Observations of the times of vibration of the VERTICAL FORCE MAGNETOMETER in a vertical plane have usually been made two, three, or four times a week. The adopted time of vibration till February 28 was $21^s{\cdot}78$; from March 1 to April 14, $21^s{\cdot}39$; from April 15 to October 9, $21^s{\cdot}52$; and from October 10 to December 31, $20^s{\cdot}71$.

Observations for the time of vibration in a horizontal plane were made in 1848, July, and the time was found to be $24^s{\cdot}0164$ from 7000 vibrations. The values of the disturbing force, in terms of the whole vertical force, for one division of the scale, are inferred to be 0·000747 till February 28; 0·000775 from March 1 to April 14; 0·000766 from April 15 to October 9; and 0·000827 from October 10 to the end of the year; and these numbers are used in their respective periods.

The correction for temperature is $0{\cdot}00013845 \times (t-32) + 0{\cdot}00000405 4 \times (t-32)^2$. This is *not* applied to any of the results of observation.

The methods adopted in the use of the Photographic Apparatus, in the determinations of zeros both for time and for magnetic indications, and in the translation into numbers of the indications given by the Photographic Traces, for arbitrary times, are in every respect the same as those described in the Addendum to the Introduction to the *Greenwich Magnetical and Meteorological Observations*, 1847, pages lxxxiii to xc.

It is proper, however, to mention that, in measuring the ordinates of the Vertical Force Curves, the same difficulty that is mentioned in the two preceding volumes has still occasionally been felt, though perhaps less frequently. Occasionally, without any apparent cause, the curve is dislocated; one part being raised above or depressed below the contiguous part, in the direction of the ordinate, usually by small quantities, but, at times, by a considerable quantity. In all cases

this displacement is accompanied with vibration, the original position being at the extremity of the arc of vibration, and the new position being at its center; showing that there has been no want of delicacy of the movement, and that the change is precisely the same as would be caused by the quiet application of a small weight upon one end of the magnet. To combine these dislocated parts, a small machine has been prepared, by means of which a piece of tracing-paper can be slid, parallel to itself, in the direction of the ordinates; and the various portions of the curve are traced on this paper in such a manner that their ends are properly joined. This traced curve is then used for the measure of the ordinates. I conceive that these measures, for a single sheet, are perfectly and accurately comparable: although it is evident that the results on one sheet cannot always be compared with those on another.

In order, however, to enable the reader precisely to see the nature and amount of these dislocations, and if necessary to use the Photographic readings in their uncorrected state, a Table is placed at the end of the "Indications," shewing the time when each dislocation occurred, and the quantity which must be applied algebraically to the printed numbers following the dislocation, in order to produce the numbers as they would be read at once from the Photographic Sheets. And, as the same general system of retracing had been used in the years 1848, 1849, 1850, similar tables are given for these years.

It is worthy of remark that nearly all the dislocations in the morning hours are in one direction, and those in the afternoon hours are in the opposite direction.

In general the ordinates of the Photographic Curves have been measured so frequently, including all maxima and minima, that a reader, laying down a succession of points by means of the given times as abscissæ and the given measures of force as ordinates, connecting these points by straight lines, and attending to the symbols as explained in the foot-notes, will very nearly reproduce the original curves.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 1		Jan. 1		Jan. 1				
h m	° ′ ″	h m		h m		h m	°	°
1. 2	22. 25. 30	1. 0	·0975	1. 0	·01640	1. 40	56 ·0	58 ·0
4. 52	25. 0	2. 45	·0967	3. 28	·01534	3. 40	58 ·0	59 ·0
5. 38	15. 0	3. 21:	·0972	5. 12	·01419	9. 40	57 ·0	58 ·5
6. 40	25. 15	4. 41	·0967	11. 20	·01543	21. 50	53 ·0	54 ·0
7. 48	20. 0	5. 0:	·0972	11. 50	·01708			
10. 5	18. 45	5. 35	·0956	17. 15	·01874			
11. 0	21. 0	5. 57	·0957	23. 28	·01853			
23. 55	21. 0	6. 13	·0966					
		6. 50	·0962					
		7. 5	·0956					
		7. 28	·0962					
		7. 49:	·0953					
		10. 45	·0980					
		12. 29	·0973					
		12. 45	·0977					
		21. 27	·0980					
		22. 55	·0969					
		23. 57	·0968					
Jan. 2		Jan. 2		Jan. 2				
0. 30	22. 21. 0	0. 27	·0966	0. 35	·01815	1. 40	55 ·0	57 ·0
10. 0	18. 30	2. 32	·0966	4. 40	·01624	3. 40	59 ·0	60 ·0
23. 55	21. 0	3. 10	·0957	5. 12	·01720	9. 40	56 ·0	58 ·0
		3. 56	·0966	23. 30	·01650	21. 48	54 ·0	56 ·0
		5. 10	·0962					
		10. 0	·0974					
		21. 45	·0978					
		21. 53	·0985					
		23. 57	·0980					
Jan. 3		Jan. 3		Jan. 3				
1. 5	22. 22. 0	0. 58	·0973	1. 15	·01796	1. 40	55 ·0	57 ·0
14. 12	21. 0	3. 5	·0968	6. 30	·01615	3. 40	57 ·0	59 ·0
14. 45:	24. 30	6. 36	·0980	9. 15	·01680	9. 40	54 ·0	57 ·0
15. 45	20. 0	14. 2	·0981	16. 0	·01625	21. 46	51 ·0	52 ·5
22. 0	19. 30	17. 59	·0991	22. 2	·01550			
23. 55	23. 30	23. 50	·0977					
Jan. 4		Jan. 4		Jan. 4				
1. 15	22. 24. 0	0. 17	·0984	1. 8	·01805	1. 40	53 ·0	54 ·0
10. 30	18. 40	5. 55	·0981	7. 0	·01320	3. 40	53 ·0	54 ·0
13. 45	20. 40	14. 10	·0985	11. 0	·01576	9. 47	52 ·0	54 ·5
14. 4	21. 40	22. 0	·0981	20. 0	·01655	23. 10	51 ·0	53 ·0
14. 34	19. 45	23. 50	·0981	23. 30	·01644			
23. 30	22. 40							
Jan. 5		Jan. 5		Jan. 5				
0. 30	22. 23. 30	0. 0	·0984	0. 0	·01654	10. 40	50 ·0	53 ·0
2. 30	20. 10	5. 12:	·0981	2. 30	·01674	21. 40	43 ·5	47 ·5
10. 45	19. 40	17. 41	·0998	8. 0	·01395			
23. 55	24. 40	23. 50	·0993	12. 25	·01723			
				22. 30	·01608			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 6		Jan. 6		Jan. 6				
h m	° ′ ″	h m		h m		h m	°	°
0. 30	22. 25. 40	0. 37	·0980	1. 0	·01619	1. 40	45 ·5	49 ·9
4. 20	20. 20	4. 10	·0985	5. 30	·01133	3. 40	48 ·5	50 ·5
21. 45	20. 10	5. 8	·0979	10. 15	·01075	9. 40	50 ·0	52 ·5
		18. 43	·0991	21. 14	·01282	21. 40	49 ·0	51 ·0
		23. 27	·0982					
Jan. 7		Jan. 7		Jan. 7				
0. 15	22. 22. 30	3. 58	·1064	0. 0	·01280	1. 40		51 ·5
1. 40:	24. 20	16. 0	·1066	2. 42	·01138	3. 40	48 ·0	53 ·0
4. 40	20. 50	19. 32:	·1075	5. 30	·01204	9. 40	52 ·5	54 ·0
21. 45	19. 40	22. 9	·1060	11. 0	·01150	21. 40	47 ·0	49 ·0
23. 25	21. 50			18. 30	·01269			
				23. 25	·01659			
Jan. 8		Jan. 8		Jan. 8				
0. 0	22. 25. 0	1. 48	·1057	1. 30	·01705	1. 40	50 ·0	52 ·0
0. 22	26. 0	18. 3	·1085	5. 15	·01242	3. 40	55 ·0	57 ·0
0. 37	24. 30	21. 35	·1081	8. 15	·01189	9. 40	53 ·0	54 ·0
0. 41	26. 40	23. 55	·1061	12. 45	·01475	21. 40	44 ·0	45 ·0
0. 47	24. 40			22. 40	·01330			
0. 54	26. 40							
5. 0	21. 10							
12. 0	20. 20							
23. 55	25. 10							
Jan. 9		Jan. 9		Jan. 9				
0. 15	22. 24. 40	0. 26	·1059	0. 30	·01675	1. 40	49 ·0	51 ·0
5. 20	21. 10	5. 15	·1055	3. 30	·01430	3. 40	53 ·0	53 ·4
12. 26	19. 0	11. 55	·1067	4. 55	·01189	9. 40	49 ·0	49 ·8
13. 45:	15. 10	12. 22	·1073	7. 12	·01164	21. 40	44 ·0	45 ·0
16. 20	21. 0	12. 39	·1068	12. 30	·01498			
23. 55	24. 0	13. 19	·1075	22. 40	·01475			
		23. 54	·1064					
Jan. 10		Jan. 10		Jan. 10				
0. 0	22. 23. 0	0. 14	·1065	0. 15	·01568	1. 40	48 ·0	48 ·0
2. 5	24. 40		***	4. 25	·01130	3. 40	50 ·0	51 ·0
5. 0	21. 0	2. 49	·1061	6. 15	·01178	9. 40	53 ·0	54 ·4
22. 30	20. 0	3. 20:	·1066	21. 0	·01190	21. 40	52 ·0	53 ·0
23. 20	22. 0	3. 58	·1061					
		23. 49	·1052					
Jan. 11		Jan. 11		Jan. 11				
0. 25	22. 23. 0	0. 25	·1056	0. 30	·01183	1. 40	53 ·0	54 ·0
11. 25	18. 10		***	3. 30	·01240	3. 40	55 ·0	57 ·0
23. 15	20. 10	8. 53	·1050	6. 0	·01250	9. 40	54 ·0	56 ·0
		10. 22	·1056	8. 0	·01235	23. 15	51 ·0	52 ·5
		23. 58	·1048	18. 0	·01453			
				23. 20	·01573			
Jan. 12		Jan. 12		Jan. 12				
0. 0	22. 21. 10	0. 0	·1046	0. 0	·01585	11. 15	52 ·0	54 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 12		Jan. 12		Jan. 12				
h m	° ′ ″	h m		h m		h	°	°
2. 45	22. 23. 10	12. 0	·1059	3. 25	·01543	21. 40	50 ·0	52 ·0
12. 22	21. 0	12. 31:	·1063	11. 30	·01445			
13. 3	19. 0	13. 22	·1058	15. 0	·01475			
14. 45	22. 10	15. 3:	·1063	22. 30	·01538			
15. 30	20. 10	22. 38	·1052					
22. 0	19. 0	23. 18	·1045					
23. 45	23. 0							
Jan. 13		Jan. 13		Jan. 13				
1. 5	22. 25. 20	1. 12	·1047	1. 0	·01555	1. 40	53 ·0	54 ·0
2. 15	25. 50	5. 27	·1062	5. 0	·01554	3. 40	54 ·0	55 ·0
5. 0	21. 20	6. 58	·1057	7. 30	·01288	9. 40	52 ·5	54 ·0
13. 43	19. 50	8. 2	·1067	18. 0	·01480	21. 40	49 ·0	49 ·8
14. 0	18. 0	23. 45	·1054	23. 0	·01618			
15. 28	19. 30							
22. 10	18. 40							
23. 55	23. 0							
Jan. 14		Jan. 14		Jan. 14				
0. 24	22. 23. 40	0. 25	·1048	0. 30	·01575	1. 40	52 ·0	53 ·0
5. 25	21. 50	4. 30	·1055	3. 25	·01463	3. 40	53 ·0	54 ·0
6. 0:	24. 10	5. 5	·1048	7. 0	·01262	9. 40	50 ·0	52 ·0
6. 29	23. 10	5. 54	·1054	12. 0	·01455	21. 40	48 ·0	51 ·5
9. 27	22. 0	6. 13:	·1049	15. 30	·01509			
10. 27	19. 50	10. 28	·1055	23. 0	·01470			
10. 42:	18. 50	10. 56:	·1067					
11. 0	20. 30	11. 18	·1062					
11. 30:	18. 0	20. 48	·1069					
12. 5	20. 0	23. 57	·1056					
23. 55	23. 00							
Jan. 15		Jan. 15		Jan. 15				
0. 15	22. 23. 20	0. 30	·1056	0. 30	·01719	1. 40	52 ·0	53 ·0
5. 30	20. 30	7. 19	·1068	5. 0	·01328	3. 40	54 ·0	55 ·0
6. 0	19. 10	7. 43	·1064	8. 45	·01178	9. 40	50 ·0	51 ·0
10. 55	19. 50	8. 50	·1069	14. 0	·01255	21. 40	45 ·0	45 ·8
11. 40:	17. 0	12. 50	·1058	19. 0	·01435			
12. 17	18. 50	13. 39	·1074	23. 30	·01718			
12. 50	17. 30	14. 3	·1057					
13. 23	19. 30	14. 24	·1070					
14. 11	16. 20	15. 30	·1064					
17. 55	19. 20	16. 0	·1071					
22. 30	20. 30	21. 23	·1073					
23. 55	24. 30	23. 30	·1058					
Jan. 16		Jan. 16		Jan. 16				
0. 20	22. 26. 20	0. 30	·1054	0. 35	·01708	1. 40	49 ·0	50 ·4
1. 40	22. 40	1. 37	·1050	4. 0	·01427	3. 40	54 ·0	55 ·0
1. 43	25. 20	1. 44	·1075	7. 0	·01165	9. 40	52 ·0	52 ·5
1. 58	15. 30		***	7. 45	·01310	21. 40	49 ·5	52 ·0
2. 58	30. 50	1. 57	·1042	11. 30	·01190			
3. 10:	27. 30		***	11. 55	·01319			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 16		Jan. 16		Jan. 16				
h m	° ′ ″	h m		h m				
3. 28	22. 30. 0	2. 57	·1075	15. 40	·01124			
3. 53:	22. 50	3. 13:	·1062	23. 30	·01232			
4. 10	25. 30	3. 28	·1075					
4. 20	22. 40	3. 39	·1048					
	***		***					
6. 34	23. 50	4. 25:	·1078					
6. 47	31. 30	4. 58	·1091					
7. 22	28. 10	5. 36	·1069					
7. 40	19. 10	5. 42	·1064					
			***					
7. 45	22. 10							
7. 55	17. 10	6. 28	·1068					
8. 15	31. 20	6. 47	·1099					
8. 25	26. 0	7. 0	·1075					
8. 30	29. 20		***					
8. 57	21. 0	8. 44	·1031					
9. 8	29. 0		***					
9. 15	19. 10	9. 48	·1040					
9. 34	22. 40	10. 0	·1024					
9. 45	11. 30	10. 10	·1043					
			***					
9. 50	14. 40							
10. 3	6. 10	11. 14	·1014					
			***					
10. 27	19. 50							
10. 50	10. 10	11. 46	·1061					
10 58	17. 0	11. 57	·1029					
11. 28	10. 10	12. 4	·1069					
11. 40	12. 30	12. 43	·0990					
11. 45	6. 10	13. 29	·1025					
11. 54	22. 14. 30	13. 36	·1006					
12. 15	21. 45. 0	13. 48:	·1028					
12. 25	21. 43. 0	14. 12	·1035					
13. 33	22. 19. 0	14. 35	·1018					
13. 45	10. 0	14. 57	·1003					
14. 4	16. 30	15. 20	·1035					
14. 28	9. 10	16. 0:	·1017					
14. 55:	18. 0		***					
15. 50	3. 20	17. 12	·1029					
17. 10	19. 10	17. 18	·1014					
17. 15	15. 0	17. 29	·1026					
17. 40	22. 0	17. 43	·1026					
17. 57	14. 10	17. 48	·1013					
18. 17	21. 20		***					
23. 55	23. 23	18. 14	·1054					
		18. 40	·1035					
			***					
		23. 55	·1039					
Jan. 17		Jan. 17		Jan. 17				
0. 43	22. 23. 20	0. 30	·1036	0. 40	·01471	1. 40	52 ·0	53 ·0
6. 0	21. 0		***	3. 30	·01259	3. 40	55 ·0	55 ·5
23. 10	20. 50	7. 11	·1038	4. 44	·01398	9. 40	53 ·0	55 ·0
23. 55:	24. 40	7. 18	·1050	6. 10	·01548	21. 40	44 ·0	45 ·5
		7. 22	·1030	15. 0	·01545			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

January 7. The times throughout this day are somewhat doubtful.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Jan. 17 h m		Jan. 17 h m		h m	°	°
		7.26	·1049 ***	17.40	·01779			
				23. 0	·01695			
		14.15	·1048					
		19.30:	·1054					
		21.52	·1050					
		23.20	·1030					
Jan. 18		Jan. 18		Jan. 18				
0.32	22.23. 0	1. 0	·1033 ***	1. 0	·01725	1.40	48 ·0	48 ·8
0.48:	24.10			3.50	·01527	3.40	53 ·0	54 ·0
1. 3:	23.40	2.55	·1034	5.53	·01205	9.40	49 ·5	51 ·5
1.13	26.40 ***	3.12:	·1026	9.32	·01132	22.40	46 ·5	49 ·0
		3.27	·1036	15.30	·01354			
1.53	25. 0	5.45	·1054	23.30	·01635			
3. 0	27.40	6. 0	·1048 ***					
4.50	20.10							
5.18:	19.10	7. 6	·1048					
5.53	22.20	7.17	·1054 ***					
21.30	19. 0							
22.14	20.10 ***	18. 0:	·1064					
		21. 0	·1062					
23.28	20. 0	22.29	·1034					
		22.32	·1045					
		22.39	·1036					
		22.41	·1042					
		22.43	·1036 ***					
		23.20	·1036					
		23.29	·1034					
Jan. 19		Jan. 19		Jan. 19				
0. 0	22.22.40 ***	0. 0	·1046	0. 0	·01630	9.40	48 ·0	49 ·5
		1.37	·1043	2.30	·01669	21.40	44 ·0	46 ·0
3.13	25.10	2.30	·1048	6. 0	·01425			
3.55:	19.30	3.25	·1041	9.15	·01274			
4.30:	20.30	4.30:	·1055	11.15	·01295			
5.13	18.30	5. 5:	·1047	11.45	·01185			
6.30	22.30	8.55	·1055	12.30	·01275			
7.23:	17.10	9. 6	·1078	16.30	·01500			
7.52	20.10	9.30:	·1056	18.25	·01448			
9.40	17.10	10. 2	·1068	23.10	·01620			
10.18:	14.10	10.12	·1058					
10.45	20.30	10.42	·1071					
11. 2:	17.50	11.15	·1059					
11.38	31. 0	11.21	·1089					
12.10:	10.30	11.48	·1022					
13. 6:	15.10	12.30	·1063 ***					
13.24:	13. 0							
13.54:	17.20	13.16	·1047 ***					
14.15:	16.10							
14.43:	18. 0	13.52	·1056 ***					
15. 0:	14.30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 19 h m	° ′ ″	Jan. 19 h m		h m		h m	°	°
15.30:	22.20.30	15.39	·1037					
16.30	23.40 ***	16.57	·1053					
		17. 8	·1066					
17.30	26.30	17.45	·1054					
17.45	35.10	18.12	·1099					
18.13	47.20	18.44	·1055					
18.35	23.30	18.50	·1062					
18.45	27.40	19. 0	·1051					
19. 8	20. 0	19.48	·1091					
19.40:	29.30	20.32	·1045					
20. 0	28.30	21.35:	·1065					
20.28	34.30	22.35	·1024					
21. 3	17.30	22.40	·1028					
21.18	25. 0 ***	22.58	·0985					
		23. 0	·1009					
21.55	22. 0	23.15	·0991					
22.13	28.40 ***	23.16	·1010					
		23.31	·0935					
22.50	21.30	23.47	·0987					
23.20	40.30	23.50	·0980					
23.30	35.20	23.59	·1012					
23.45	41.40							
23.53	30. 0							
23.58	41.30							
Jan. 20		Jan. 20		Jan. 20				
0.15	22.34.30	0.18	·1024	0. 0	·01675	1.40	47 ·0	48 ·0
0.28	40.30 ***	1. 4	·0971	1. 0	·01730	3.40	51 ·0	52 ·0
		2. 3	·1047	1.27	·01785	9.40	51 ·0	51 ·8
1.10	29.20	2.38	·1017	1.40	·01761	21.40	51 ·0	52 ·0
1.35:	39.20	2.57	·1039	1.55	·01773			
1.50	33.30	3. 4	·1019	2.10	·01733			
2. 3	39. 0	3.27	·1037	2.38	·01710			
2.12	34. 0	3.40	·1016	3.35	·01800			
2.18	37.30	4.11	·1028 ***	5. 0	·01470			
2.50	31.30			7. 0	·01198			
3. 0	38. 0	5.13	·1018 ***	11.30	·01125			
3.17	29.20			17. 0	·01160			
3.32	40.30	9.22	·1037	23.55	·01220			
4. 3	20.30	10.32	·1036					
4.13	24.40	10.52	·1064					
4.23	22.20	11.36	·1035					
4.38	27. 0	11.57	·1040					
4.45	24.50	20.27	·1040					
5. 3:	27. 0	21.56	·1032					
5.30	20.30	23.30	·1014					
7.33	19. 0							
8. 0:	17.20							
9. 0	18.30							
10.18	19.30							
10.54	11. 0							
11.30	18.50							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
Jan. 20								
h m	° ′ ″	h m		h m		h m	°	°
11 47	22. 15. 40							
12. 43	20. 20							
23. 55	23 20							
Jan. 21		Jan. 21		Jan. 21				
0. 15	22. 24. 20	0. 30	·1016	1. 0	·01250	1. 40	55 ·0	57 ·0
6 43:	16. 0		***	6. 20	·01380	3 40	56 ·0	57 ·0
7. 18	24. 30	3 30	·1017	8. 57	·01613	9. 40	53 ·5	56 ·5
7. 54:	16. 30	4. 10	·1023	10. 4	·01650	21. 40	46 ·5	49 ·5
8. 15	18. 20	4. 30	·1013		***			
9. 46	22. 19. 0	5. 3	·1022	10 45	·01550			
10. 5	21. 59 30		***	15. 45	·01590			
10. 12	22. 9. 20	6. 37	·1009	22. 10	·01525			
10. 16	6. 20	6. 52	·1023	23. 55	·01570			
10. 43	14. 30		***					
11. 20	0. 20	7. 52	·1010					
12. 20	19. 30		***					
13. 25:	9. 30	9 13	·1018					
14. 30	21. 40	9. 57	·1000					
15. 15:	12. 50	10. 12	·1054					
16. 7	18. 20	10. 19	·1030					
23. 52	26. 0	10. 28	·1045					
		10. 58	·1014					
			***					
		12 25	·1003					
		13. 14	·1036					
			***					
		13. 57	·1035					
		14. 15:	·1025					
			***					
		15. 3	·1046					
		17. 58	·1059					
		21. 20	·1058					
		21. 42	·1053					
		21. 49	·1061					
		23. 53	·1048					
Jan. 22		Jan. 22		Jan. 22				
0. 0	22. 25. 20	1. 0	·1028	1. 0	·01750	1. 40	49 ·0	51 ·0
4. 40	21. 40	1. 53	·1035	5. 8	·01278	3. 40	54 ·0	55 ·0
5. 30:	25. 0	4. 42	·1015	8. 0	·01280	9. 40	50 ·0	50 ·8
6. 0	24. 10		***	13. 10	·01480	21. 40	43 ·0	47 ·0
7. 5	27. 0	7. 40	·1018	14. 35	·01545			
7. 43	23. 0	7. 49	·1030	22. 10	·01452			
7. 50	25. 50		***	23. 50	·01500			
8. 43	20. 10	8. 12	·1019					
10. 23	12. 0	9. 12	·1024					
12. 28	16. 30	9. 57	·1042					
12. 43:	19. 30		***					
12. 55	15. 40	10. 28	·1038					
13. 48	12 0	11. 0	·1028					
16. 13	17. 30	12. 50	·1032					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
Jan. 22		Jan. 22						
h m	° ′ ″	h m		h m		h m	°	°
16. 50:	22. 19. 30	13. 16	·1053					
18. 48	18. 40	13. 30	·1056					
23 45	22. 40	13. 41	·1047					
		14. 27	·1035					
		16. 34	·1054					
		17. 33	·1048					
		18. 55	·1056					
		21. 47	·1050					
		22. 8	·1060					
		23. 50	·1034					
Jan. 23		Jan. 23		Jan. 23				
1. 0	22. 24. 40	1. 10	·1028	1. 15	·01620	1. 40	49 ·0	49 ·0
2. 11	27. 30	2. 8	·1015	3. 35	·01258	3. 40	55 ·0	55 ·0
3. 0	21. 40	4. 0	·1026	6. 20	·01275	9. 40	51 ·5	54 ·0
5. 0	22. 50		***		***	21. 40	40 ·0	40 ·0
5. 48	18. 50	6. 7	·1008	9. 0	·01205			
6. 25	17. 0		***	9. 45	·01370			
	***	9. 34	·1043	11. 25	·01430			
7. 58	20. 30	10. 0	·1036	11. 45	·01419			
8. 10	17. 20	10 21	·1035	15. 35	·01772			
10. 25:	16. 0	10. 34	·1043	18. 30	·01715			
10 45:	16. 50	10. 39	·1040	22. 55	·01637			
10. 53	14. 30	10. 58	·1053					
11. 5	16. 30	11. 7	·1047					
11. 13	11. 30	11. 21	·1082					
11. 35	21. 50	11. 42	·1052					
12. 10:	16. 30	13. 13	·1034					
13. 5:	14. 30	16. 20	·1050					
15. 27	21. 0	20. 0	·1057					
16. 35	19. 20	23. 40	·1043					
23. 55	22. 30							
Jan. 24		Jan. 24		Jan. 24				
1. 0	22. 23. 50	1. 0	·1030	1. 15	·01642	1. 40	45 ·0	46 ·0
3. 30:	20. 30	3. 30	·1024	3. 0	·01508	3. 40	50 ·0	50 ·0
4. 0	22. 30	11. 50	·1045	5. 25	·01125	9. 40	48 ·0	49 ·0
4. 30	20. 40	12. 30	·1041	6. 10	·01128	21. 40	40 ·0	40 ·0
4. 45	21. 10	17. 36	·1057	10. 0	·01050			
9. 47	17. 0	20. 35	·1059	16. 0	·01378			
10. 47	19. 30	22. 37	·1055	18. 45	·01648			
		22. 48	·1043	22. 30	·01621			
		23. 40	·1037					
Jan. 25		Jan. 25		Jan. 25				
0. 0	22. 21. 30	1. 0	·1026	0. 0	·01639	1. 40	45 ·0	46 ·0
1. 45	26. 10	8. 10	·1048	2. 0	·01545	3. 40	50 ·0	51 ·0
6. 30	20. 0	9. 12	·1042	4. 35	·01090	9. 40	49 ·0	49 ·0
9. 35	19. 30	9. 58	·1044	6. 0	·01110	23. 6	40 ·0	41 ·0
9. 55	17. 30	10. 23	·1058	11. 15	·01045			
10. 10:	12. 30	10. 50	·1048	13. 0	·01085			
10. 55	19. 10	12. 54	·1047	13. 30	·01071			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 25		Jan. 25		Jan. 25				
h m	° ′ ″	h m		h m		h m	°	°
12. 47	22. 18. 0	13. 12:	·1060	22. 30	·01584			
13. 0	20. 50	13. 33	·1048					
13. 37	12. 30	14. 27	·1037					
13. 50:	11. 30	15. 10	·1050					
14. 40:	17. 30	20. 20	·1063					
15. 0:	15. 0	20. 44	·1052					
15. 47:	18. 0	23. 20	·1055					
16. 10:	17. 30							
16. 37	19. 20							
23. 4	20. 0							
Jan. 26		Jan. 26		Jan. 26				
0. 0	22. 21. 40	0. 0	·1055	0. 0	·01638	12. 0	44 ·0	44 ·8
2. 0	23. 20	6. 24	·1060	2. 20	·01728	21. 40	43 ·0	44 ·0
7. 48	20. 0	7. 0	·1056	5. 40	·01545			
7. 58:	12. 40	7. 38	·1058	7. 45	·01390			
8. 47	21. 30	8. 0:	·1050	9. 15	·01342			
10. 22	17. 55	8. 52	·1058	22. 0	·01282			
10. 46	20. 50	9. 20	·1052					
11. 7	18. 40	10. 0	·1062					
13. 7	20. 10	10. 23	·1056					
16. 5	18. 10	19. 0:	·1063					
16. 39	22. 10	23. 55	·1044					
21. 56	20. 0							
23. 59	24. 0							
Jan. 27		Jan. 27		Jan. 27				
1. 20	22. 24. 40	1. 20	·1040	1. 30	·01228	1. 40	49 ·0	49 ·9
4. 50	22. 30	1. 43	·1031	4. 45	·01398	3. 40	55 ·0	55 ·0
6. 0	20. 10	3. 49	·1015	5. 35	·01370	9. 40	52 ·0	57 ·0
11. 13:	18. 30	7. 20:	·1032	13. 0	·01848	21. 40	52 ·0	52 ·5
11. 43	20. 20	8. 0	·1026	16. 0	·01770			
12. 30	18. 0	11. 20	·1044	20. 30	·01819			
14. 37	19. 20	11. 46	·1040	22. 0	·01770			
15. 0:	25. 30	12. 45	·1047	23. 15	·01810			
16. 0:	19. 20	13. 26	·1042					
17. 0	17. 50	14. 32	·1044					
23. 59	24. 30	14. 46	·1039					
		15. 29	·1048					
		19. 22	·1053					
		23. 30	·1034					
Jan. 28		Jan. 28		Jan. 28				
0. 15	22. 23. 20	0. 10	·1024	0. 30	·01853	1. 40	52 ·0	53 ·0
4. 0	20. 50	5. 40	·1024	3. 38	·01370	3. 40	56 ·0	57 ·0
6. 30	19. 0	6. 27	·1016	5. 10	·01312	9. 40	53 ·0	54 ·0
7. 10:	23. 10	7. 10	·1024	16. 0	·01823	21. 47	51 ·0	51 ·0
8. 15:	15. 50	7. 58	·1017	23. 0	·01841			
8. 27	18. 30	8. 29	·1032					
8. 45	11. 30	8. 41	·1018					
9. 30	17. 40	8. 52	·1027					
12. 44	18. 30	9. 21	·1020					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 28		Jan. 28						
h m	° ′ ″	h m		h m		h m	°	°
13. 17:	22. 21. 10	10. 20	·1030					
14. 0	20. 10	19. 32	·1048					
21. 0	23. 50	20. 27	·1033					
23. 59	21. 0	21. 10	·1038					
		23. 50	·1010					
Jan. 29		Jan. 29		Jan. 29				
0. 15	22. 22. 30	1. 0	·1012	0. 5	·01933	1. 40	55 ·0	56 ·0
4. 15	20. 50	2. 30	·1018	4. 55	·01412	3. 40	57 ·0	58 ·0
7. 30	19. 20	4. 10	·1009	6. 0	·01460	9. 40	54 ·0	59 ·0
8. 15:	13. 10	6. 5	·1025	7. 45	·01362	21. 40	47 ·0	48 ·0
8. 43	17. 0	7. 20	·1023	19. 26	·01970			
9. 0:	12. 30	7. 28	·1028	22. 15	·01904			
9. 15	14. 30	7. 30	·1024					
9. 53	9. 20	7. 34	·1027					
10. 30	16. 30	7. 50	·1019					
11. 0	14. 30	8. 42	·1024					
12. 30	18. 50	9. 0	·1033					
12. 50:	18. 0	9. 20	·1022					
13. 15	20. 0	9. 50	·1029					
23. 55	23. 0	10. 40	·1018					
		11. 5	·1015					
		19. 0:	·1039					
		23. 30	·1024					
Jan. 30		Jan. 30		Jan. 30				
0. 25	22. 24. 40	1. 0	·1020	1. 0	·01948	1. 40	50 ·0	51 ·0
6. 30	19. 10	12. 0	·1041	5. 20	·01440	3. 40	56 ·0	56 ·0
23. 55	20. 10	18. 30:	·1051	7. 30	·01370	9. 40	50 ·0	50 ·8
		23. 30	·1028	15. 0	·01700	21. 40	44 ·0	51 ·0
				18. 30	·01630			
				20. 45	·01689			
				23. 0	·01648			
Jan. 31		Jan. 31		Jan. 31				
0. 12	22. 20 ·40	0. 30	·1028	0. 30	·01854	1. 40	47 ·0	52 ·0
1. 43:	23 ·10	10. 10	·1045	5. 0	·01517	3. 40	49 ·0	54 ·5
4. 47	20 ·10	13. 0	·1045	8. 30	·01193	9. 40	49 ·0	55 ·5
23. 55	20 ·30	18. 30	·1061	23. 0	·01718	21. 40	45 ·0	51 ·5
		20. 10	·1061					
		21. 40	·1052					
		21. 49	·1062					
		23. 55	·1050					
Feb. 1		Feb. 1		Feb. 1				
0. 35	22. 23 ·20	0. 58	·1031	0. 30	·01674	1. 40	50 ·0	51 ·0
	***	2. 30	·1036	4. 15	·01292	3. 40	54 ·0	55 ·0
4. 0	21. 40	3. 14	·1015	6. 10	·01371	9. 40	50 ·0	52 ·0
6. 30	21. 30	5. 48	·1038	17. 15	·01892	23. 10	44 ·0	51 ·0
6. 40:	19. 40	6. 32	·1020	21. 0	·01900			
7. 26:	27. 50	6. 43:	·1031					
8. 28:	12. 20	7. 2	·1014					

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Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 1		Feb. 1		Feb. 1				
h m	° ′ ″	h m		h m		h m	°	°
9. 5	22. 24. 50	7. 12	·1023					
9. 50:	19. 40	7. 35	·1023					
10. 25	21. 20	7. 49	·1013					
10. 35	24. 10	8. 9	·1022					
11. 17	14. 0	8. 18	·1011					
11. 55	17. 50	8. 33	·1025					
14. 28	20. 50	8. 47	·1018					
16. 0	16. 0	9. 1	·1027					
16. 36	19. 30	9. 38	·1015					
23. 28	21. 0	10. 28	·1034					
		10. 50	·1020					
		11. 22	·1033					
			***					
		14. 50	·1036					
		15. 20	·1050					
		16. 10	·1042					
		19. 0:	·1050					
		23. 30	·1042					
Feb. 2		Feb. 2		Feb. 2				
0. 0	22. 22. 0	0. 0	·1041	0. 0	·01835	9. 30	44 ·5	51 ·0
1. 45:	23. 40	1. 30	·1050	3. 30	·01888	21. 40	40 ·0	52 ·0
3. 30	21. 50		***	8. 30	·01770			
20. 30	19. 50	2. 0	·1052	13. 20	·01842			
	***		***	18. 0	·01762			
23. 59	23. 30	7. 0	·1054	20. 30	·01800			
			***	22. 30	·01670			
		17. 0	·1064					
		19. 0	·1065					
			***					
		21. 45	·1060					
		21. 53	·1074					
		22. 32	·1058					
		23. 50	·1040					
Feb. 3		Feb. 3		Feb. 3				
1. 5	22. 27. 0	1. 0	·1030	1. 15	·01483	1. 40	49 ·0	50 ·0
1. 30	28. 20	3. 45	·1037	2. 50	·01210	3. 40	53 ·0	54 ·0
2. 0	26. 50	4. 0	·1031	6. 15	·01330	9. 40	50. 0	51 ·0
3. 45	21. 20	17. 50	·1058	10. 0	·01230	21. 40	45 ·0	46 ·0
23. 55	23. 0	21. 40	·1051	22. 50	·01842			
		21. 44	·1056					
		23. 55	·1042					
Feb. 4		Feb. 4		Feb. 4				
0. 50	22. 23. 40	1. 0	·1043	1. 0	·01840	1. 40	49 ·0	50 ·0
3. 15	19. 30	3. 45	·1038	5. 30	·01273	3. 40	54 ·0	55 ·0
23. 55	21. 10	4. 0	·1030	6. 25	·01348	9. 40	50 ·0	56 ·0
		16. 45:	·1054	8. 0	·01267	21. 40	45 ·0	46 ·0
		20. 50	·1054	15. 25	·01855			
		23. 30	·1032	21. 15	·01900			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 5		Feb. 5		Feb. 5				
h m	° ′ ″	h m		h m		h m	°	°
0. 25	22. 22. 10	0. 30	·1030	0. 30	·01770	1. 40	51 ·0	52 ·0
6. 30	19. 30	5. 0	·1034	5. 15	·01238	3. 40	53 ·0	54 ·0
8. 15	25. 10		***	6. 15	·01320	9. 40	50 ·0	52 ·0
9. 45	3. 0	7. 47	·1062	8. 0	·01250	21. 40	47 ·0	49 ·0
9. 55	0. 30		***	9. 36	·01283			
10. 13	22. 6. 0	9. 12	·1048	10. 20	·01240			
10. 20	21. 59. 30	9. 40	·1068	10. 55	·01298			
11. 0	22. 18. 10	10. 18	·1026	14. 0	·01238			
12. 0	15. 40	10. 28	·1032	23. 30	·01730			
13. 25	25. 40	10. 37	·1006					
14. 0	16. 50	10. 55	·1021					
14. 45	23. 40	18. 45	·1058					
15. 15:	19. 20		***					
19. 43	20. 50	21. 48	·1047					
	***	23. 18	·1022					
23. 55	25. 50							
Feb. 6		Feb. 6		Feb. 6				
0. 43	22. 26. 0	0. 45	·1007	0. 30	·01720	1. 40	52 ·0	53 ·0
4. 30	19. 20	2. 57	·1014	3. 49	·01395	3. 40	56 ·0	57 ·0
14. 5	17. 20	3. 7	·1009	5. 30	·01348	9. 40	52 ·0	56 ·0
15. 14	21. 30	7. 30	·1034	6. 25	·01372	21. 40	43 ·0	48 ·0
23. 59	21. 20	11. 38	·1064	8. 0	·01320			
		13. 0	·1039	14. 35	·01890			
		13. 8	·1047	18. 30	·01841			
		14. 0	·1046	22. 10	·01810			
		14. 27	·1039					
		18. 0:	·1052					
		20. 0	·1050					
		23. 30	·1029					
Feb. 7		Feb. 7		Feb. 7				
0. 40	22. 22. 30	1. 0	·1019	0. 35	·01800	1. 40	47 ·0	48 ·0
6. 0	20. 0	6. 30	·1046	4. 50	·01250	3. 40	53 ·0	54 ·0
7. 5	19. 30	6. 45	·1041	6. 20	·01331	9. 40	52 ·0	54 ·0
7. 28:	15. 0	7. 0	·1044	8. 30	·01260	21. 45	52 ·0	53 ·0
8. 0	19. 20	7. 20	·1038	20. 30	·01320			
23. 55	23. 0	7. 30	·1045					
		8. 15	·1048					
			***					
		14. 0	·1049					
		19. 0	·1046					
		23. 30	·1027					
Feb. 8		Feb. 8		Feb. 8				
0. 53	22. 24. 20	1. 0	·1012	1. 0	·01370	1. 40	55 ·0	57 ·0
6. 0	19. 50	3. 57	·1038	12. 30	·01858	3. 40	59 ·0	59 ·0
23. 15	20. 0	8. 5	·1027	18. 35	·01818	9. 40	52 ·0	58 ·0
		8. 28	·1020	20. 25	·01828	23. 0	44 ·0	49 ·0
		8. 30	·1040	22. 15	·01740			
		13. 30	·1044					
		13. 40	·1049					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
Feb. 8	
18. 45	·1038
21. 30	·1050
23. 30	·1036
Feb. 9	
0. 0	22. 23. 50
	***
0. 20	26. 40
0. 47:	24. 0
1. 52	27. 30
	***
4. 0	27. 20
4. 40:	25. 0
5. 18:	27. 50
6. 0	23. 40
8. 25	22. 30
8. 45	11. 0
9. 25	17. 0
10. 30	18. 20
10. 48	14. 20
	***
12. 52	9. 30
14. 10	18. 10
14. 40:	12. 40
15. 23:	11. 30
15. 55:	14. 0
16. 15	12. 0
23. 55	21. 40
Feb. 10	
0. 40	22. 27. 40
1. 12	24. 30
6. 35	25. 30
7. 25	20. 50
7. 55	20. 30
8. 15	17. 20
8. 43	20. 20
9. 58	10. 30
10. 14:	14. 40
10. 20:	13. 20
10. 45:	16. 30
11. 12:	7. 40
11. 43	5 10
12. 20	20 10
12. 35	15. 20
12. 53:	20 30
13. 20:	8. 20
13. 40	13. 30
14. 0:	9 30
14. 47:	14. 40
15. 10:	14. 0
15. 45:	17. 40

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H F. uncorrected for Temperature.
h m	
Feb. 8	
18. 45	·1038
21. 30	·1050
23. 30	·1036
Feb. 9	
0. 0	·1035
0. 28	·1038
0. 46	·1030
3. 50	·1052
5. 0	·1050
5. 42	·1039
7. 50	·1054
8. 14	·1041
8. 27	·1044
8. 45	·1020
9. 0	·1038
	***
11. 30	·1038
12. 6	·1052
12. 50	·1029
14. 45	·1044
21. 59	·1052
23. 30	·1040
Feb. 10	
1. 6	·1040
3. 11	·1033
4. 30	·1026
5. 25:	·1032
6. 0:	·1030
6. 23:	·1035
6. 52:	·1028
7. 35:	·1039
8. 1:	·1030
9. 40	·1048
10. 56	·1016
11. 29	·1040
11. 38	·1021
12. 0	·1052
12. 28	·1019
12. 47:	·1046
13. 8	·1032
13. 31	·1049
14. 0	·1024
15. 30	·1029
15. 59	·1055
16. 29	·1060

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Feb. 9	
0. 0	·01874
1. 30	·01922
8. 15	·01630
20. 30	·01825
Feb. 10	
0. 30	·01690
4. 10	·01290
6. 15	·01365
8. 0	·01300
11. 25	·01430
13. 5	·01437
17. 10	·01845
21. 50	·01820

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
9 45	48 ·0	48 ·0
21. 40	46 ·0	49 ·0
1. 40	50 ·0	55 ·0
3. 40	55 ·0	57 ·0
9. 40	51 ·5	56 ·5
21. 40	44 ·0	48 ·0

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
Feb. 10	
16. 35:	22. 12. 30
17. 12:	14. 40
17. 37:	18. 20
23. 55	26. 50
Feb. 11	
0. 7	22. 27. 30
0. 37	23. 40
7. 30	21. 40
7. 52	19. 30
8. 13	23. 40
10. 0	20. 0
23. 59	25. 30
Feb. 12	
0. 5	22. 25. 0
4. 5	23. 30
4. 40	13. 20
5. 12	14 40
5. 40	22. 50
12. 58	18. 20
13. 10	20. 40
13. 30	14. 40
23. 50	20. 20
Feb. 13	
0. 0	22. 21. 40
21. 30	20. 10
22. 0:	19. 20
22. 28:	21. 20
11. 15:	19. 40
23. 55	21. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H F. uncorrected for Temperature.
h m	
Feb. 10	
17. 4	·1037
17. 26	·1046
21. 40	·1050
23. 40	·1018
Feb. 11	
1. 0	·1018
6. 30	·1027
7. 0:	·1034
7. 40	·1024
8. 5:	·1036
8. 17	·1028
9. 29	·1036
9. 50	·1028
10. 30	·1036
20 50	·1055
23. 50	·1039
Feb. 12	
0. 28	·1026
1. 28	·1023
1. 43	·1034
3. 2	·1024
4. 0	·1026
4. 32	·1009
5. 26	·1031
5. 50	·1024
7. 55	·1030
8. 20	·1018
8. 48	·1034
9. 6	·1027
11. 27	·1039
12. 50	·1031
13. 42	·1044
14. 30	·1032
20. 20	·1042
23. 45	·1032
Feb. 13	
0. 0	·1032
0. 48	·1033
2. 28	·1024
2. 45:	·1027
3. 25	·1018
7. 22	·1041
8. 8	·1036
8. 54	·1041
9. 48:	·1033
10. 18	·1039
14. 0	·1044
14. 28	·1038

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Feb. 11	
0. 30	·01145
1. 50	·01115
3. 50	·01200
5. 30	·01195
6. 28	·01273
8. 30	·01183
18. 15	·01689
23. 30	·01730
Feb. 12	
0. 15	·01728
4. 35	·01263
5. 0	·01300
5. 45	01280
6. 30	·01320
10. 0	·01214
23. 0	·01620
Feb. 13	
0. 0	·01595
4. 32	·01280
5. 28	·01315
8. 30	·01248
19. 30	·01839
23. 0	·01870

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	48 ·0	49 ·0
3. 40	52 ·0	52 ·4
9. 40	51 ·0	55 ·0
21. 40	44 ·0	49 ·0
1. 40	48 ·0	51 ·0
3. 40	53 ·0	55 ·0
9. 40	52 ·5	56 ·0
21. 40	47 ·0	52 ·5
1. 40	51 ·0	53 ·5
3. 40	54 ·0	55 ·0
9. 40	50 ·0	54 ·0
21. 40	47 ·5	52 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Feb. 13 h m		h m		′ m	°	°
		15. 48	·1043					
		21. 25	·1045					
		23. 55	·1024					
Feb. 14		Feb. 14		Feb. 14				
0. 0	22. 20. 50	0. 0	·1025	0. 0	·01832	1. 40	52 ·0	54 ·0
10. 18	20 10	0. 50	·1037	5. 10	·01297	3. 40	55 ·0	57 ·0
10. 43:	17. 0	2. 12	·1029	6. 27	·01368	9. 40	54 ·0	58 5
11. 0:	18. 10	5. 23	·1035	9 0	·01280	21. 40	45 0	47 ·5
11. 25:	16. 50	6 51	·1033	15. 33	·01620			
23. 55	23 30	8. 3	·1043	20. 0	·01528			
		8. 38	·1033	23. 30	·01547			
		9 34	·1046					
		11. 12	·1036					
		12. 3	·1044					
		13. 8	·1043					
		21. 2:	·1063					
		23. 58	·1036					
Feb. 15		Feb. 15		Feb. 15				
0. 30	22. 24. 10	0. 32	·1032	0. 30	·01790	1. 40	48 ·0	51 ·0
5. 30	20. 30	5. 24	·1027	4. 38	·01280	3. 40	55 ·0	58 ·0
5. 55	19. 30	6. 27	·1032	6. 45	·01393	9. 40	53 ·0	55 ·0
6. 30	22. 10	7. 25	·1025	9. 55	·01273	23. 10	40 ·5	46 ·5
7. 30	20. 0	7. 49	·1034	15. 57	·01807			
7. 55	22. 30	8. 12	·1029	23. 25	·01615			
9. 10	19. 10	8. 30	·1034					
9. 40	23. 30	8. 41	·1030					
10. 12:	18. 30	9. 17	·1037					
10. 43	20. 40	9. 59	·1020					
11. 0:	18. 30	10. 30:	·1032					
11. 43:	17. 0	10. 59	·1024					
12. 5	20. 30	12. 4	·1030					
13. 0	10. 0	12. 43	·1018					
13 53	17. 20	13. 6	·1032					
14. 40	16. 0	14. 59	·1039					
15. 0:	18. 30	15. 45	·1058					
16. 25	12 30	16. 8	·1050					
17. 43	19. 0	21. 21	·1057					
23. 0	23. 20	21. 49	·1052					
		22. 28	·1056					
		22. 30	·1049					
		22. 40	·1061					
		23. 58	·1057					
Feb. 16		Feb. 16		Feb. 16				
0. 12	22. 24. 40	0. 11	·1060	0 30	·01500	9. 40	45 ·5	52 ·0
3. 50	24. 0	2. 47	·1054	2. 0	·01645	21. 40	37 ·0	46 ·0
4. 30	20. 0	3. 1	·1046	7. 10	·01219			
10. 15	19 10	3. 47	·1052	10. 30	·01113			
10. 27	14 40	4. 26	·1045	18. 5	·01662			
10. 55	19. 0	5. 48	·1048	21. 30	·01603			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 16 h m	° ′ ″	Feb. 16 h m		h m		h m	°	°
11. 10	22. 17. 0	5. 57	·1056					
11. 37:	17. 50	6. 28	·1044					
12. 5	21. 30	7. 3	·1058					
12. 30	19. 30		(†)					
23. 55	26. 10	9. 10	·1052					
		10. 10	·1051					
		10. 27	·1059					
		10. 55	·1050					
		11. 16	·1068					
		11. 46	·1051					
		12. 12	·1057					
		19. 3	·1070					
			(†)					
		21. 0	·1074					
		21. 27	·1072					
		23. 56	·1045					
Feb. 17		Feb. 17		Feb. 17				
0. 7	22. 26. 10	0. 44	·1045	0. 10	·01525	1. 40	45 ·0	47 ·0
4. 0	19. 30	0. 52	·1043	1. 30	·01400	3. 40	49 ·0	51 ·0
23. 55	21. 0	0. 59	·1046	3. 15	·01193	9. 40	50 ·0	54 ·0
		1. 3	·1043	6. 45	·01319	21. 40	48 ·0	50 ·0
		1. 12	·1047	8. 55	·01197			
		1. 31	·1039	19. 30	·01458			
			***	23. 55	·01362			
		1. 56	·1055					
			***					
		2. 38	·1040					
		3. 10	·1046					
		3. 36	·1039					
		5. 30	·1030					
		9. 0	·1045					
		19. 0	·1057					
		21. 45	·1048					
		23. 32	·1055					
		23. 55	·1029					
Feb. 18		Feb. 18		Feb. 18				
0. 50	22. 23. 20	0. 50	·1030	0. 30	·01300	1. 40	54 ·0	56 ·0
3. 15	27. 10	3. 2	·1029	4. 45	·01414	3. 40	58 ·0	59 ·0
3. 47	24. 0	3. 15	·1051	5. 40	·01379	9. 50	55 ·5	60 ·5
4. 37	20. 10		***	5. 43	·01465	21. 45	52 ·5	57 ·5
5. 33:	24. 20	4. 20	·1046	6. 35	·01535			
6. 0:	27. 10		***	7. 30	·01510			
6. 30	23. 40	4. 46	·1054	11. 30	·01630			
8. 50	21. 30		***	14. 20	·01495			
9. 28	15. 0	6. 14	·1028	14. 48	·01570			
12. 30	14. 30	7. 14	·1051	15. 20	·01443			
12. 45	18. 50	7. 28	·1035	15. 36	·01500			
12. 50	18. 20		***	16. 0	·01558			
13. 15	26. 0	8. 6	·1040	16. 10	·01520			
13. 37	23. 20		***	16. 33	·01590			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 18		Feb. 18		Feb. 18				
h m	° ′ ″	h m		h m		h m	°	°
13. 55	22. 28. 10	8. 42	·1024	16. 40	·01539			
14. 25	22. 6. 40		***	16. 53	·01555			
15. 20	21. 45. 50	10. 6	·1036	17. 8	·01523			
16. 0	22. 21. 0	11. 14	·1032	17. 32	·01639			
16. 14	0. 0	11. 49	·1052	17. 35	·01625			
17. 10	27. 0	12. 50	·1030	17. 55	·01670			
17. 33	39. 30	13. 0	·1042	18. 5	·01668			
17. 57	18. 30	13. 50	·1016	18. 25	·01740			
	***	13. 53	·1022	20. 15	·02000			
19. 45	16. 10	14. 21	·0982	23. 55	·02055			
	***	15. 3:	·1032					
20. 30	20. 40	15. 30	·1008					
21. 10	21. 0	15. 40	·1022					
	***	15. 58	·0976					
23. 58	21. 0	16. 0	·0989					
		16. 2	·0978					
		16. 4	·0987					
		16. 7	·0982					
			***					
		16. 30	·1017					
		16. 50	·0957					
		16. 57	·0966					
		17. 6	·0944					
		17. 39	·1028					
			***					
		18. 4	·1018					
		18. 11	·1046					
		18. 14	·1034					
		18. 17	·1046					
		18. 22	·1036					
		18. 27	·1044					
			***					
		19. 32	·1000					
		19. 50	·0990					
		19. 52	·1006					
			***					
		21. 13	·0978					
			***					
		22. 52	·0992					
			***					
		23. 55	·0988					
Feb. 19		Feb. 19		Feb. 19				
1. 40	22. 22. 31*	1. 40	·1004*	0. 20	·02050	1. 40	55 ·0	58 ·0
3. 40	23. 32*	3. 40	·1012*	4. 28	·01780	3. 40	58 ·0	59 ·5
9. 40	16. 58*	9. 40	·1032*	4. 35	·01800	9. 40	56 ·0	58 ·0
21. 40	19. 30*	21. 40	·1036*	5. 45	·01675	21. 40	52 ·0	56 ·5
				8. 15	·01578			
				9. 52	·01622			
				10. 28	·01540			
				15. 0	·01740			
				15. 24	·01728			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
				Feb. 19				
h m	° ′ ″	h m		h m		h m	°	°
				20. 15	·01870			
				22. 5	·01804			
				23. 30	·01845			
Feb. 20		Feb. 20		Feb. 20				
1. 0	22. 25. 0	1. 0	·1008	0. 50	·01990	1. 40	54 ·0	58 ·0
2. 12:	26. 0	2. 30	·1005	5. 45	·01450	3. 40	58 ·0	61 ·0
5. 25	19. 0	5. 0	·1014	6. 35	·01525	9. 40	57 ·0	62 ·0
7. 10	18. 20	7. 35	·1017	8. 55	·01413	21. 45	50 ·5	56 ·0
7. 43	13. 30	8. 0	·1040	17. 0	·01880			
8. 5	18. 40	8. 12	·1027	22. 0	·01802			
8. 20	15. 0	8. 25	·1023					
8. 37	16. 40	8. 38	·1029					
9. 0	18. 20	9. 24	·1016					
9. 30	17. 30	18. 30:	·1035					
23. 55	22. 50	20. 15	·1032					
		23. 30	·1009					
Feb. 21		Feb. 21		Feb. 21				
0. 40	22. 24. 20	1. 0	·1006	1. 0	·01910	1. 40	53 ·0	55 ·0
6. 30	20. 20	5. 30	·1016	8. 0	·01425	3. 40	58 ·0	59 ·5
19. 40	19. 30	5. 50	·1013	13. 25	·01860	9. 40	55 ·0	58 ·5
20. 25:	18. 40	13. 0	·1035	22. 0	·01690	21. 40	46 ·0	47 ·5
21. 0:	20. 20	18. 0:	·1044					
21. 40:	18. 20	20. 45	·1042					
23. 55	26. 0	21. 0	·1041					
		21. 52	·1040					
		22. 40	·1027					
		23. 55	·1023					
Feb. 22		Feb. 22		Feb. 22				
0. 47	22. 26. 0	1. 0	·1028	0. 30	·01630	1. 40	50 ·0	54 ·0
7. 15	18. 50	5. 0	·1032	4. 23	·01235	3. 40	54 ·0	56 ·0
11. 53	18. 20	5. 44	·1024	8. 45	·01178	9. 40	52 ·0	53 ·0
12. 25	16. 0	8. 25	·1043	16. 40	·01732	23. 0	44 ·0	46 ·0
14. 10	19. 30	8. 46	·1034	20. 55	·01653			
23. 25	22. 40	11. 38	·1046					
		12. 6	·1058					
		12. 40	·1047					
		13. 0	·1043					
		13. 30	·1040					
		19. 0	·1057					
		19. 53	·1055					
		19. 30	·1059					
		23. 6	·1051					
Feb. 23		Feb. 23		Feb. 23				
0. 0	22. 22. 20	0. 0	·1048	0. 0	·01520	11. 40	48 ·0	51 ·0
5. 10	16. 20		***	5. 12	·01130	21. 47	45 ·0	47 ·0
5. 50:	20. 30	4. 20	·1048	8. 45	·01163			
8. 10	21. 0	5. 15	·1058	9. 45	·01119			
8. 40	1. 20	5. 43	·1055	23. 0	·01678			

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Feb. 23		Feb. 23						
h m	° ′ ″	h m		h m		h m	°	°
9. 30	22. 16. 0	5. 58	·1059					
10. 15:	13. 20	6. 30	·1054					
10. 37	16. 40	7. 2	·1062					
10. 58	14. 20	9. 20	·1055					
11. 20:	16. 50	10. 32	·1032					
11. 37:	14. 20	11. 13	·1045					
12. 28:	21. 20	11. 28	·1038					
23. 50	23. 20	11. 42	·1043					
		12. 0	·1038					
		12. 26	·1055					
		16. 26	·1038					
		16. 45	·1043					
		18. 15	·1037					
		20. 5	·1048					
		20. 28	·1032					
		20. 57	·1052					
		21. 50	·1048					
		23. 13	·1022					
		23. 49	·1025					
Feb. 24		Feb. 24		Feb. 24				
1. 5	22. 24. 10	1. 4	·1034	1. 0	·01560	1. 40	50 ·0	52 ·0
2. 12	28. 10	2. 10	·1042	4. 20	·01260	3. 40	53 ·0	56 ·0
3. 12	19. 50	2. 49	·1019	9. 36	·01210	9. 40	53 ·5	56 ·5
7. 25	25. 0	3. 36	·1034	19. 50	·01744	21. 40	48 ·0	51 ·0
8. 20	15. 10	4. 2	·1028	23. 30	·01750			
10. 5	12. 10	4. 31	·1035					
11. 5	19. 40	8. 32	·1039					
11. 24	17. 10		***					
13. 40	18. 20	9. 50	·1036					
14. 17	23. 10	10. 50	·1038					
15. 5	18. 0	11. 10:	·1055					
21. 13	21. 0	11. 42	·1038					
21. 40	16. 30	13. 4	·1038					
23. 55	25. 0	13. 18	·1045					
		14. 3	·1036					
		14. 38	·1051					
		16. 28	·1043					
		18. 30	·1054					
		19. 2	·1047					
		20. 13	·1046					
			***					
		22. 55	·1028					
		23. 12	·1033					
		23. 25	·1026					
		23. 40	·1025					
		23. 51	·1030					
Feb. 25		Feb. 25		Feb. 25				
0. 20	22. 25. 50	0. 18	·1035	0. 0	·01750	1. 40	51 ·0	52 ·0
4. 5	24. 0	0. 47	·1017	6. 30	·01283	3. 40	54 ·0	55 ·0
4. 40	20. 50		(†)	7. 0	·01300	9. 40	53 ·0	55 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 25		Feb. 25						
h m	° ′ ″	h m		h m		h m	°	°
8. 30	22. 19. 40	1. 45	1025	Feb. 25				
9. 0:	16. 0	2. 14	1029	12. 0	·01220	21. 40	48 ·0	50 ·0
9. 15:	18. 0	3. 10	1017	21. 0	·01750			
9. 30:	16. 0	4. 5	1032	21. 44	·01735			
10. 0:	14. 10	4. 30	1023	23. 38	·01737			
10. 35:	22. 40	4. 47	1026					
10. 50	10. 40	5. 20	1021					
11. 12	19. 40	5. 44	1032					
14. 0	20. 30	6. 31	1002					
14. 20:	17. 40	6. 51	1027					
14. 50	20 20	7. 10	1023					
23. 55	23. 20	7. 32:	1032					
		8. 21	1029					
		8. 31	1026					
		8. 56	1013					
		9. 29	1019					
		9. 54	1006					
		10. 20	1026					
		10. 38	1010					
		10. 53	1040					
		10. 59	1034					
		11. 36	1047					
		12. 52	1029					
			***					
		17. 0	1039					
		20. 14	1040					
			***					
		23. 30	1027					
Feb. 26		Feb. 26		Feb. 26				
0. 28	22. 24. 30	0. 30	1028	0. 30	·01730	1. 40	53 ·0	55 ·0
6. 0	19. 0	0. 38	1032	2. 31	·01600	3. 40	49 ·0	52 ·0
18. 25	21. 0		***	5. 26	·01231	9. 40	52 ·0	53 ·0
21. 35:	15. 20	4. 28	1029	6. 30	·01210	21. 40	42 ·5	45 ·0
23. 55	24. 40		***	8. 30	·01220			
		5. 8	1020	9. 39	·01273			
		6. 2	1029	13. 56	·01700			
		6. 15	1023	23. 0	·01573			
		10. 7	1043					
		18. 0:	1057					
		19. 30	1056					
		21. 0	1046					
		22. 30	1029					
		23. 30	1025					
Feb. 27		Feb. 27		Feb. 27				
1. 44	22. 24. 37*	1. 0	1026	0. 30	·01221	1. 44	50 ·0	53 ·0
3. 40	21. 10*	8. 51	1044	2. 25	·01073	3. 40	53 ·0	55 ·0
9. 40	18. 39*	9. 28	1039	4. 15	·01184	9. 40	50 ·0	52 ·0
21. 40	17. 35*	10. 0	1051	9. 33	·01120	21. 40	43 ·5	46 ·0
		19. 45:	1058	18. 30	·01667			
		21. 0	1051	21. 52	·01600			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Feb. 27 h m		Feb. 27 h m		h m	°	°
		21. 45	·1044	23. 45	·01630			
		22. 30	·1036					
		22. 48	·1033					
		23. 30	·1018					
Feb. 28		Feb. 28		Feb. 28				
0. 30	22. 25. 20	0. 30	·1020	0. 30	·01595	1. 40	50 ·0	54 ·0
5. 30	17. 40		***	1. 56	·01442	3. 40	53 ·0	55 ·8
6. 37	18. 40	2. 50	·1022	3. 55	·01149	9. 40	49 ·0	51 ·0
7. 17	14. 30	3. 26	·1029	4. 30	·01163	21. 45	42 ·0	45 ·0
9. 0	16. 50	4. 49	·1028	8. 30	·01105			
10. 30	10 30	5. 1	·1019	10. 38	·01150			
10. 43:	13. 0	5. 24	·1027	10. 50	·01145			
11. 0:	11. 30	5. 50	·1023	17. 25	·01519			
11. 55:	20 10	6. 34	·1032	18. 0	·01477			
12. 37:	15. 0	6. 54	·1027	22. 30	·01570			
13. 7	19. 20	7. 59	·1044					
13. 40	18. 0	9. 55	·1038					
14. 12	23. 20	10. 36	·1055					
15. 5	17. 20	11. 0	·1040					
16. 25	29. 0	11. 40	·1040					
17. 15	15. 50	12. 20	·1054					
17. 35	20. 0	12. 57	·1033					
17. 50	17. 30	13. 24	·1052					
23. 50	24. 40		***					
		15. 36	·1050					
			***					
		16. 15	·1063					
		17. 20	·1065					
		18. 3	·1033					
		18. 54	·1050					
		19. 28	·1042					
			***					
		22. 20	·1035					
		23. 30	·1024					
Mar. 1		Mar. 1		Mar. 1				
0. 25	22. 25. 0	1. 0	·1021	0. 45	·01500	1. 40	50 ·0	53 ·0
6. 30	21. 20		***	2. 16	·01292	3. 40	53 ·0	54 ·0
7. 30	20. 0	4. 30	·1024	3. 30	·01119	9. 48	48 ·0	51 ·0
8. 7	16. 30		***	3. 55	·01139	23. 10	42 ·0	46 ·0
8. 30	19. 30	4. 50	·1030	6. 15	·01072			
8. 45	13. 0	5. 30	***	18. 15	·01632			
12. 7	20. 30		·1024	23. 30	·01555			
12. 20	23. 40	6. 7	·1030					
12. 53:	18. 30	6. 48	·1029					
13. 10	20. 40	7. 13:	·1039					
23. 15	20. 50	7. 50	·1024					
			***					
		8. 49	·1039					
		9. 4	·1030					
		9. 45	·1026					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
h m	° ′ ″	Mar. 1 h m		h m		h m	°	°
		11. 29	·1037					
		11. 47	·1035					
		12. 23	·1044					
		12. 30	·1034					
		12. 57	·1040					
		13. 14	·1036					
		13. 23	·1042					
		13. 46	·1040					
		20. 0	·1051					
		23. 18	·1043					
Mar. 2		Mar. 2		Mar. 2				
0. 0	22. 20. 30	0. 30	·1014	0. 0	·01555	9. 40	47 ·0	48 ·5
7. 15	19. 30		***	3. 15	·01493	21. 44	41 ·0	44 ·0
7. 50	10. 30	1. 36	·1048	9. 0	·01021			
8. 35	19. 40	1. 49	·1036	11. 0	·00985			
9. 39	12. 0	2. 6	·1048	17. 30	·01318			
11. 50:	19. 0	2. 17	·1036	23. 0	·01520			
13. 25:	14. 20	2. 50	·1048					
13. 50:	18. 50	3. 15	·1038					
14. 37	14. 20	3. 31	·1047					
15. 25	16. 30	4. 30	·1041					
15. 50:	15. 40	5. 29	·1042					
16. 12	18. 10	5. 58	·1038					
23. 50	24. 20	6. 16	·1041					
		6. 29	·1038					
		7. 22	·1048					
		7. 39	·1031					
		8. 15:	·1046					
		9. 1	·1024					
		11. 45	·1039					
		12. 32	·1035					
		12. 53	·1051					
		13. 21	·1037					
		13. 58	·1046					
		15. 0	·1034					
		15. 20	·1021					
		15. 45	·1045					
		20. 2	·1049					
		20. 5	·1056					
		20. 10	·1041					
		20. 22	·1064					
		21. 50	·1046					
		22. 6	·1032					
		23 10	·1050					
		23. 50	·1040					
Mar. 3		Mar. 3		Mar. 3				
0. 0	22. 23. 40	0. 50	·1019	1. 0	·01510	1. 40	45 ·0	48 ·0
5. 25:	21. 0	2. 17	·1039	2. 31	·01400	3. 40	48 ·0	49 ·0
6. 10:	0. 0		***	2. 55	·01367	9. 40	50 ·0	53 ·0
7. 52	18. 40	4. 2	·1040	3. 15	·01345	21. 40	44 ·5	46 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 3		Mar. 3		Mar. 3				
h m s	° ′ ″	h m		h m		h m	°	°
9. 30	22. 15. 30	5. 9	·1017	5. 33	·01050			
10. 5	20. 40	6. 15	·1033	6. 20	·01074			
11. 20	17. 40	6. 29	·1016	6. 28	·01067			
23. 45	25. 20	6. 50	·1016	7. 10	·01093			
		7. 2	·1037	10. 45	·01000			
		7. 12	·1031	22. 30	·01420			
			***					
		8. 50	·1031					
		9. 11	·1038					
		10. 0	·1032					
		10. 45:	·1048					
		11. 7	·1040					
		23. 30	·1036					
Mar. 4		Mar. 4		Mar. 4				
0. 35	22. 25. 20	0. 40	·1034	1. 0	·01380	1. 40	48 ·0	51 ·0
5. 30	20. 0	5. 0	·1019	2 10	·01263	3. 40	50 ·0	53 ·5
23. 55	21. 10	10. 30	·1033	3. 0	·01155	9. 40	53 ·5	54 ·0
		18. 0:	·1040	4. 45	·01212	21. 40	48 ·0	50 ·0
		23. 20	·1039	8. 30	·01170			
				17. 0	·01510			
				20. 35	·01765			
				23. 55	·01735			
Mar. 5		Mar. 5		Mar. 5				
0. 35	22. 22. 40	0. 30	·1030	0. 25	·01712	1. 44	51 ·0	53 ·0
6. 30	19. 30	4. 0	·1036	2. 53	·01573	3. 40	54 ·0	55 ·0
19. 7	20. 30	6. 0	·1029	9. 31	·01145	9. 40	54 ·0	56 ·0
21. 40	16. 20	9. 31	·1038	14. 0	·01266	21. 40	44 ·5	47 ·0
23. 55	21. 50	20. 15:	·1053	19. 10	·01716			
		23. 13	·1033	22. 8	·01634			
		23. 15	·1018	23. 55	·01678			
		23. 52	·1029					
Mar. 6		Mar. 6		Mar. 6				
0. 12	22. 22. 20	0. 30	·1032	0. 5	·01671	1. 40	48 ·0	50 ·0
5. 45	19. 40	4. 0	·1032	2. 30	·01595	3. 40	51 ·0	54 ·0
23. 55	25. 30		***	7. 0	·01110	9. 48	50 ·0	51 ·0
		7. 0	·1034	7. 25	·01113	21. 40	45 ·0	48 ·0
		9. 0	·1042	9. 24	·01073			
		17. 40	·1052	15. 0	·01272			
		17. 45	·1056	21. 10	·01642			
		20. 0	·1055	23. 30	·01632			
		20. 50	·1044					
		21. 15	·1050					
		23. 30	·1030					
Mar. 7		Mar. 7		Mar. 7				
0. 25	22. 27. 0	1. 0	·1029	1. 40	·01474*	1. 40	50 ·0	54 ·0
6. 15	19. 30	1. 30	·1032	3. 40	·01223*	3. 40	52 ·0	54 ·0
10. 0	17. 30	1. 47	·1025	9. 40	·01093*	9. 40	52 ·0	54 ·0
11. 0:	15. 10	3. 29	·1030	21. 44	·01667*	21. 44	46 ·0	49 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 7		Mar. 7						
h m	° ′ ″	h m		h m		h m	°	°
11. 43	22. 17. 40	3. 40	·1038					
13. 43	18. 30	3. 52	·1035					
14. 25:	15. 30		***					
16. 37	21. 30	6. 15	·1040					
17. 25	19. 20	9. 0:	·1048					
18. 10	27. 20	13. 22	·1050					
19. 25	18. 40	13. 48	·1063					
20. 5:	16. 50	15. 0	·1052					
20. 25:	17. 30	16. 29	·1054					
23. 55	23. 20	17. 5	·1067					
		17. 42	·1046					
		18. 29	·1068					
		20. 48	·1050					
		21. 10	·1060					
		22. 12	·1038					
		23. 30	·1032					
Mar. 8		Mar. 8		Mar. 8				
0. 45	22. 26. 30	1. 30	·1009	1. 30	·01440	1. 40	55 ·0	57 ·0
6. 45	19. 30	7. 33	·1036	3. 15	·01205	3. 40	56 ·0	59 ·0
22. 55	20. 0	7. 45	·1031	4. 10	·01250	9. 40	54 ·0	56 ·0
		8. 30:	·1039	6. 33	·01178	23. 10	45 ·0	48 ·0
		9. 12	·1034	9. 32	·01283			
		9. 59	·1033	13. 50	·01582			
		10. 12:	·1039	19. 0	·01480			
		10. 33:	·1032	23. 55	·01345			
		20. 15:	·1066					
		23. 12	·1055					
Mar. 9		Mar. 9		Mar. 9				
0. 0	22. 20. 50	1. 0	·1049	0. 0	·01540	11. 58	46 ·0	49 ·0
9. 30	21. 0	4. 28	·1048	2. 0	·01567	21. 40	44 ·5	46 ·0
10. 35:	14. 0	5. 3	·1058	7. 0	·01369			
11. 15	18. 10	6. 44:	·1039	13. 40	·01210			
12. 45	18. 30	7. 42:	·1042	18. 0	·01310			
13. 15:	20. 50	8. 35	·1034	23. 0	·01418			
13. 45	13. 50	9. 59	·1050					
23. 55	23. 10	10. 29	·1046					
		19. 0	·1056					
		20. 30	·1055					
		22. 30	·1042					
		23. 30	·1042					
Mar. 10		Mar. 10		Mar. 10		1. 40	48 ·0	51 ·0
0. 33	22. 25. 20	0. 32	·1031	1. 0	·01304	3. 40	52 ·0	54 ·0
6. 0	22. 20	1. 18	·1030	2. 36	·01225	9. 40	48 ·0	51 ·0
7. 0	25. 30	1. 22	·1042	3. 45	·01120	21. 40	44 ·0	47 ·0
7. 50	15. 0	4. 3	·1031	5. 25	·01082			
8. 25	25. 30	4. 50	·1042	6. 25	·01067			
9. 0:	16. 40	5. 30	·1028	7. 35	·01110			
12. 15	19. 0	5. 47	·1038	9. 38	·01162			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 10		Mar. 10		Mar. 10				
h m	° ′ ″	h m		h m		h m	°	°
13. 30	22. 12. 40	6. 5	·1036	18. 30	·01638			
14. 5	19. 20	6. 15	·1046	22. 1	·01573			
14. 25	17. 20	6 31	·1041	22. 45	·01489			
21. 0	18. 10	6. 45	·1045	23. 55	·01403			
23. 30	31. 40	7. 5	·1044					
		7. 30:	·1024 ***					
		8. 10	·1035					
		8. 15	·1029					
		8. 25	·1042					
		8. 40	·1009					
		10. 30	·1039					
		11. 40	·1034					
		12. 5	·1035					
		13. 44:	·1040					
		14. 12:	·1037					
		14. 34:	·1041					
		14. 56	·1038					
		20. 7:	·1051					
		23. 48	·1009					
Mar. 11		Mar. 11		Mar. 11				
0. 35	22. 30. 10	0. 35	·1017	0. 30	·01298	1. 40	50 ·0	53 ·0
7. 0	22. 40 ***	1. 0	·1011	2. 0	·01087	3. 40	54 ·0	56 ·0
		2. 3	·1023	4. 45	·01200	9. 40	53 ·0	56 ·0
10. 12	21. 20	4. 12	·1014	9. 18	·01178	21. 40	45 ·0	46 ·0
10. 35:	18. 10	4. 51	·1021	11. 5	·01213			
11. 17	23 30	5. 20	·1017	11. 30	·01193			
11. 55	11. 50	6. 0	·1024	16. 55	·01710			
12. 20	15. 0	7. 30	·1021 ***	21. 54	·01650			
12. 55:	9. 0			23. 30	·01680			
13. 10	12. 40	8. 8	·1024					
13. 50	9. 40	8. 52	·1013					
16. 0	22. 0	9. 32	·1018					
19. 30	22. 30	10. 47	·1013					
20. 10	25. 30	11. 12	·1038					
21. 15	22. 0	11. 20	·1032					
23. 55	31. 30	11. 48	·1047					
		12. 16	·1053					
		12. 54:	·1028					
		13. 4:	·1033					
		13. 53	·1017					
		14. 21	·1027					
		14. 40:	·1022					
		15. 14	·1030					
		17. 59	·1039					
		18. 34	·1035					
		19. 56	·1041					
		20. 38	·1040					
		21. 36	·1021					
		23. 55	·1029					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 12		Mar. 12		Mar. 12				
h m	° ′ ″	h m		h m		h m	°	°
0. 20	22. 24. 30	0. 20	·1027	0. 30	·01640	1. 40	50 ·0	52 ·0
6. 0	20. 30	2. 32	·1016	2. 17	·01533	3. 40	52 ·0	53 ·0
9. 25	19. 40	3. 23:	·1027	3. 50	·01420	9. 40	50 ·0	52 ·0
10. 20	15. 30	4. 18	·1020	5. 0	·01265	21. 40	45 ·0	47 ·0
11. 0	19. 10	6. 37	·1029	9. 38	·01063			
23. 55	21. 30	7. 12	·1027	18. 0	·01315			
		9. 51	·1044	23. 15	·01597			
		20. 17	·1040					
		23. 55	·1021					
Mar. 13		Mar. 13		Mar. 13				
0. 25	22. 22. 40	0. 25	·1024	0. 30	·01522	1. 40	52 ·0	54 ·0
6. 30	18. 50	2. 3	·1019	3. 0	·01215	3. 40	58 ·0	60 ·0
8. 10	18. 50	2. 56:	·1012	7. 15	·01279	9. 40	55 ·0	58 ·0
8. 40	15. 20	3. 14	·1017	8. 10	·01250	21. 40	46 ·0	48 ·0
11. 10	16. 30	6. 53	·1014	9. 43	·01368			
12. 12	13. 20	8. 40	·1028	14. 30	·01812			
12. 40	15. 30	10. 18	·1022	22. 6	·01660			
23. 55	22. 20	10. 45	·1028	23. 45	·01700			
		11. 13	·1023					
		19. 28	·1049					
		23. 58	·1025					
Mar. 14		Mar. 14		Mar. 14				
0. 10	22. 24. 10	0. 12	·1028 ***	0. 30	·01680	1. 40	53 ·0	55 ·0
3. 7	25. 0			2. 9	·01495	3. 40	58 ·0	60 ·0
3. 30	27. 20	2. 47	·1002	3. 30	·01250	9. 40	56 ·0	57 ·5
8. 5	19. 30	3. 30:	·1032	5. 0	·01281	21. 45	48 ·5	52 ·0
8. 35:	14. 30	4. 40:	·1018	9. 48	·01223			
9. 30	21. 10	5. 11	·1024	14. 50	·01412			
11. 50	11. 0	8. 3	·1033	15. 50	·01339			
12. 45:	13. 0	8. 18	·1020	17. 40	·01607			
13. 12:	17. 10	8. 49	·1034	23. 30	·01645			
14. 55	13. 20	9. 40	·1028					
15. 20:	18. 0	10. 40	·1037					
15. 50	21. 59. 0	11. 3	·1049					
16. 5	22. 10. 30 ***	11. 31	·1029					
		12. 27	·1041					
16. 50	14. 20	12. 32	·1034 ***					
23. 55	25. 30	13. 31	·1032					
		13. 42	·1039					
		13. 59	·1029					
		14. 43	·1037					
		15. 0	·1050					
		15. 32	·1037					
		15. 38	·1045					
		15. 39	·1039					
		15. 46	·1059					
		15. 52	·1036					
		15. 56	·1054					
		16. 1	·1044					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Mar. 14 h m		h m		h m	°	°
		16. 3	·1048					
		16. 10	·1042					
		16. 23	·1054 ***					
		20. 0	·1038					
		20. 10	·1030					
		20. 31	·1034					
		20. 39	·1028					
		22. 12	·1020					
		22. 42	·1028					
		23. 0	·1022					
		23. 30	·1029					
		23. 55	·1025					
Mar. 15		Mar. 15		Mar. 15				
0. 20	22. 26. 20 ***	0. 30	·1024 ***	0. 30	·01760	1. 40	51 ·0	53 ·0
				6. 0	·01638	3. 40	53 ·0	55 ·0
2. 37	23. 40	2. 0	·1034	11. 35	·01778	9. 40	50 ·0	53 ·0
3. 0	26. 20	2. 36	·1024	23. 20	·01678	23. 10	46 ·5	48 ·5
3. 40	22. 10	2. 56	·1034					
6. 30	19. 30	3. 30:	·1016					
23. 40	22. 40	3. 41	·1026 ***					
		6. 45	·1034					
		9. 0	·1040					
		18. 21	·1046					
		18. 36	·1050					
		19. 30	·1048					
		20. 0:	·1046					
		21. 0	·1037					
		23. 30	·1029					
Mar. 16		Mar. 16		Mar. 16				
0. 0	22. 22. 20	0. 0	·1030	0. 0	·01708	9. 40	49 ·0	51 ·0
2. 10	25. 30	2. 0	·1040	11. 1	·01195	21. 40	44 ·0	46 ·5
5. 0	19. 20	3. 5	·1036	19. 25	·01672			
19. 30	18. 20	5. 22	·1043	23. 0	·01680			
21. 30	15. 0	8. 0	·1044					
23. 50	22. 10	8. 30	·1040					
		17. 30:	·1055					
		20. 30	·1050					
		23. 0	·1034					
		23. 30	·1034					
Mar. 17		Mar. 17		Mar. 17				
0. 43	22. 24. 20	1. 0	·1032	0. 35	·01435	1. 40	49 ·0	50 ·0
6. 0	18. 0	1. 52	·1039	3. 50	·01093	3. 40	53 ·0	55 ·0
19. 30	17. 30	2. 8	·1036	9. 59	·01070	9. 40	50 ·0	53 ·0
20. 30:	15. 30	2. 59	·1041	23. 30	·01528	21. 40	48 ·0	49 ·0
23. 55:	21. 40	3. 22	·1038					
		4. 30:	·1043					
		6. 31:	·1033					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Mar. 17 h m		h m		h m	°	°
		7. 0	·1036					
		9. 26	·1044					
		19. 0	·1048					
		20. 45	·1046					
		22. 3	·1038					
		23. 30	·1031					
Mar. 18		Mar. 18		Mar. 18				
0. 20	22. 23. 40	0. 30	·1032	0. 30	·01492	1. 40	50 ·0	53 ·0
6. 25	19. 50	2. 23	·1028	4. 33	·01183	3. 40	55 ·0	57 ·0
19. 0	18. 20	3. 9	·1031	7. 30	·01195	9. 40	53 ·5	56 ·0
21. 30:	14. 30	4. 50	·1021	9. 55	·01145	21. 40	48 ·0	50 ·0
23. 55	22. 30	7. 8	·1028	18. 45	·01755			
		9. 55	·1035	21. 52	·01710			
		17. 53	·1049	23. 0	·01723			
		20. 30	·1042	23. 55	·01670			
		22. 2	·1027					
		23. 0	·1016					
		23. 30	·1018					
Mar. 19		Mar. 19		Mar. 19				
0. 25	22. 25. 20	1. 0	·1025	0. 35	·01595	1. 40	54 ·0	56 ·0
2. 0:	26. 20	5. 0	·1026	3. 53	·01198	3. 40	56 ·0	59 ·0
6. 30	19. 20	9. 19	·1034	4. 30	·01224	9. 40	55 ·0	58 ·0
19. 30	17. 0	14. 30	·1038	9. 19	·01171	21. 45	52 ·5	54 ·0
21. 5:	14. 0	14. 38	·1043 ***	23. 5	·01467			
23. 55	25. 20			23. 55	·01400			
		21. 7	·1042					
		22. 40	·1025					
		23. 30	·1019					
Mar. 20		Mar. 20		Mar. 20				
0. 25	22. 25. 40	0. 30	·1024 ***	0. 30	·01328	1. 40	58 ·0	60 ·0
3. 0	27. 10			1. 35	·01219	3. 40	60 ·0	63 ·0
3. 20	30. 30	2. 40	·1010	7. 35	·01362	9. 40	58 ·5	61 ·0
7. 25	18. 30	3. 0	·1012	8. 45	·01322	21. 40	51 ·0	52 ·5
7. 44	21. 20	3. 20	·1025 ***	15. 30	·01873			
8. 10:	17. 40			21. 25	·01790			
19. 0	17. 30	3. 58	·1026	23. 55	·01778			
21. 10	13. 50	4. 53	·0993					
23. 55	22. 30	5. 8	·0998					
		5. 22	·0997					
		5. 52	·1020					
		5. 54	·1013					
		6. 1	·1012					
		6. 14	·1018 ***					
		7. 20	·1007					
		7. 40	·1012					
		8. 0	·1010					
		8. 20	·1020					
		10. 10	·1025					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Mar. 20 h m		h m		h m	°	°
		12. 17	·1023					
		12. 29	·1031					
		12. 44	·1024					
		16. 56	·1036					
		20. 25	·1035					
		21. 34	·1026					
		22. 1	·1026					
		23. 55	·1005					
Mar. 21		Mar. 21		Mar. 21				
0. 25	22. 23. 20	0. 30	·1008	0. 30	·01703	1. 40	54 ·0	56 ·0
6. 0	19. 30	2. 3	·1022	4. 10	01278	3. 40	60 ·0	62 ·0
19. 0	16. 30	2. 20	·1015	5. 25	·01299	9. 40	58 ·0	59 ·0
21. 5:	12. 50	2. 38	·1022	8. 0	01238	21. 40	49 ·0	50 ·0
23. 55	22. 20	2. 53	·1014	15. 5	·01649			
		3. 2	·1019	16. 0	·01609			
		3. 9	·1009 ***	19. 50	·01590			
				22. 6	·01542			
		4. 47	·1016	23. 50	·01555			
		5. 9:	·1024					
		5. 38:	·1019 ***					
		7. 17	·1020					
		7. 22	·1033					
		7. 34	·1023					
		7. 42	·1036					
		7. 50	·1030 ***					
		9. 37	·1039 ***					
		18. 8	·1051 ***					
		20. 12	·1048					
		21. 0	·1038 ***					
		23. 30	·1022					
Mar. 22		Mar. 22		Mar. 22				
0. 33	22. 24. 40	1. 0	·1020	0. 33	·01735	1. 40	54 ·0	56 ·0
4. 5	25. 40	3. 12	·1020	6. 30	·01429	3. 40	55 ·0	57 ·0
4. 17	22. 0	3. 41	·1027 ***	7. 45	·01442	9. 40	53 ·0	54 ·0
6. 40	19. 30			9. 0	·01418	23. 10	50 ·0	53 ·0
11. 0	15. 50	4. 3	·1022	15. 27	·01765			
18. 30	19. 0	4. 11	·1026	21. 25	·01748			
19. 43	18. 40	5. 39	·1019 ****	23. 30	·01722			
21. 20:	15. 30							
23. 25	22. 10	7. 24	·1030 ****					
		8. 49	·1030					
		9. 11	·1040					
		9. 41	·1048					
		10. 56	·1024					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Mar. 22 h m		h m		h m	°	°
		11. 10	·1030					
		11. 28	·1026 ***					
		17. 42	·1046					
		19. 7	·1043					
		21. 42	·1040					
		23. 55	·1025					
Mar. 23		Mar. 23		Mar. 23				
0. 0	22. 24. 10	0. 30	·1026	0. 0	·01710	12. 0	50 ·0	54 ·0
1. 0:	27. 10	2. 27	·1027 ***	6. 0	·01522	21. 40	50 ·0	52 ·0
6. 25	19. 0			11. 0	·01335			
8. 0	17. 10	4. 20	·1027	17. 0	·01429			
9. 20	15. 30	4. 41	·1015	22. 35	·01579			
23. 55	24. 40	5. 4	·1014	23. 55	01524			
		5. 32	·1026					
		6. 27	·1032					
		9. 47	·1036					
		18. 8	·1042					
		20. 11	·1036					
		21. 58	·1020					
		23. 30	·1009					
Mar. 24		Mar. 24		Mar. 24				
1. 0	22. 27. 0	0. 30	·1016	1. 0	·01410	1. 40	54 ·0	55 ·0
7. 7	18. 50	7. 15	·1026	3. 12	·01200	3. 40	58 ·0	60 ·0
8. 15	20. 0	10. 1	·1042	19. 15	·01730	9. 40	55 ·0	57 ·0
8. 40:	13. 0	16. 2	·1044	21. 56	·01672	21. 40	48 ·5	52 ·0
9. 55	17. 0	16. 30	·1050	23. 0	·01718			
10. 25:	14. 10	20. 9	·1052	23. 55	·01670			
11. 10	19. 30	21. 59	·1034					
14. 25:	25. 30	23. 30	·1028					
16. 20	17. 30							
23. 55	22. 40							
Mar. 25		Mar. 25		Mar. 25				
0. 20	22. 25. 0	0. 30	·1030	0. 30	·01662	1. 40	54 ·0	56 ·0
2. 28:	28. 0	5. 30	·1030	4. 25	·01245	3. 40	57 ·0	59 ·0
7. 25	20. 0	5. 50	·1034 ***	5. 0	·01248	9. 40	55 ·0	57 ·0
19. 25	16. 40			9. 0	·01182	21. 40	54 ·0	56 ·0
21. 44:	13. 40	10. 28	·1042	17. 0	·01370			
23. 55	22. 20	10. 54	·1039	22. 45	·01524			
		11. 20	·1045	23. 55	·01480			
		11. 49	·1040					
		12. 20	·1040					
		12. 35	·1046 ***					
		19. 35	·1048					
		20. 38	·1026					
		21. 18	·1029					
		23. 12	·1000 ***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

Gottingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Mar. 25 h m		h m		h m	°	°
		23. 45	·0998					
Mar. 26		Mar. 26		Mar. 26				
0. 30	22. 24. 50	1. 40	·1016*	0. 30	·01429	1. 40	57 ·0	57 ·8
7. 30	20. 10	3. 40	·1022*	2. 25	·01268	3. 40	59 ·0	59 ·0
19. 30	17. 10	9. 40	·1037*	4. 0	·01282	9. 40	55 ·0	57 ·0
21. 25:	13. 30	21. 40	·1037*	6. 35	·01228	21. 40	46 ·0	48 ·0
23. 50	24. 30			9. 38	·01335			
				13. 40	·01810			
				21. 35	·01692			
Mar. 27		Mar. 27		Mar. 27				
0. 17	22. 26. 10	1. 40	·1028*	0. 30	·01268	1. 40	52 ·0	53 ·0
7. 40	21. 20	3. 40	·1026*	2. 7	·01092	3. 40	56 ·0	58 ·0
13. 37:	18. 0	9. 40	·1038*	7. 30	·01248	9. 40	58 ·0	59 ·0
14. 45	17. 0	21. 40	·1020*	11. 30	·01190	21. 40	54 ·0	56 ·0
18. 30	17. 30			17. 0	·01320			
	***			23. 0	·01518			
22. 30	21. 0			23. 55	·01469			
23. 55	28. 20							
Mar. 28		Mar. 28		Mar. 28				
1. 40	22. 30. 14*	1. 40	·0997*	0. 40	·01380	1. 40	57 ·0	58 ·0
3. 40	29. 46*	3. 40	·1004*	2. 10	·01250	3. 40	60 ·0	62 ·0
9. 40	20. 57*	9. 40	·1026*	5. 30	·01350	9. 40	59 ·0	62 ·0
21. 40	17. 44*	21. 40	·1012*	6. 25	·01345	21. 40	53 ·0	56 ·5
				9. 35	·01640			
				12. 0	·01935			
				15. 35	·01838			
				23. 0	·01848			
				23. 55	·01800			
Mar. 29		Mar. 29		Mar. 29				
1. 40	22. 27. 27*	1. 40	·1024*	0. 30	·01740	1. 40	59 ·0	60 ·0
3. 40	27. 32*	3. 40	·1025*	4 45	·01270	3. 40	60 ·0	63 ·0
9. 40	3. 37*	9. 40	·1032*	7. 45	·01300	9. 40	58 ·0	60 ·0
23. 20	24. 8*	23. 20	·1011*	9. 30	·01270	23. 20	49 ·0	52 ·0
				14. 20	·01680			
				15. 0	·01632			
				23. 30	·01540			
Mar. 30		Mar. 30		Mar. 30				
9. 40	22. 19. 48*	9. 40	·1035*	0. 0	·01720	9. 40	51 ·0	54 ·0
21. 40	15. 7*	21. 40	·1027*	4. 30	·01559	21. 40	51 ·0	54 ·0
				9. 0	·01290			
				16. 0	·01500			
				19. 25	·01729			
				22. 45	·01634			
Mar. 31		Mar. 31		Mar. 31				
1. 40	22. 28. 23*	1. 40	·1018*	1. 30	·01223	1. 40	53 ·0	55 ·0
3. 40	27. 43*	3. 40	·1022*	2. 25	·01150	3. 40	56 ·0	58 ·0

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 31		Mar. 31		Mar. 31				
h m	° ′ ″	h m		h m		h m	°	°
9. 30	22. 18. 54*	9. 30	·1032*	7. 30	·01140	9. 30	54 ·0	57 ·0
21. 40	14. 51*	21. 40	·1025*	10. 0	·01161	21. 40	49 ·0	51 ·0
				18. 25	·01746			
				21. 30	·01700			
				23. 55	·01630			
Apr. 1		Apr. 1		Apr. 1				
1. 40	22. 30. 12*	1. 40	·1018*	0. 30	·01585	1. 40	54 ·0	56 ·0
3. 40	29. 18*	3. 40	·1018*	3. 5	·01272	3. 40	60 ·0	62 ·0
9. 40	18. 49*	9. 40	·1028*	7. 30	·01303	9. 40	58 ·5	61 ·0
21. 40	15. 13*	21. 40	·1016*	8. 45	·01278	21. 40	50 ·0	53 ·0
				16. 50	·01838			
				21. 51	·01763			
				23. 25	·01797			
Apr. 2		Apr. 2		Apr. 2				
1. 40	22. 26. 59*	1. 40	·1022*	0. 30	·01750	1. 40	55 ·0	57 ·0
3. 40	24. 6*	3. 40	·1030*	6. 0	·01223	3. 40	60 ·0	60 ·0
9. 40	14. 58*	9. 40	·1035*	8. 0	·01236	9. 40	57 ·0	59 ·0
21. 40	13. 30*	21. 40	·1026*	9. 39	·01205	21. 40	53 ·0	54 ·5
				16. 0	·01478			
				22. 3	·01740			
				23. 55	·01698			
Apr. 3		Apr. 3		Apr. 3				
1. 40	22. 26. 26*	1. 40	·1024*	0. 30	·01657	1. 40	55 ·0	58 ·0
3. 40	26. 35*	3. 40	·1033*	4. 50	·01272	3. 40	58 ·0	59 ·0
9. 40	18. 10*	9. 40	·1040*	9. 39	·01240	9. 40	57 ·0	59 ·0
21. 40	17. 7*	21. 40	·1032*	18. 5	·01823	21. 40	49 ·0	50 ·0
				21. 54	·01738			
				23. 15	·01765			
Apr. 4		Apr. 4		Apr. 4				
0. 15	22. 25. 50	0. 30	·1018	1. 0	·01727	1. 40	55 ·0	58 ·0
3. 25	27. 40	3. 47	·1021	4. 35	·01270	3. 40	59 ·0	61 ·0
15. 25	17. 40	3. 56	·1026	5. 30	·01298	9. 40	58 ·0	59 ·0
21. 25:	11. 0	4. 20	·1024	9. 22	·01250	21. 40	48 ·0	49 ·0
23. 55	28. 0	4. 30	·1022	16. 12	·01815			
		5. 20	·1033	21. 53	·01680			
		6. 38	·1026	23. 35	·01693			
		8. 0	·1036					
		12. 30	·1040					
		14. 20	·1043					
		19. 21	·1055					
		23. 55	·1010					
Apr. 5		Apr. 5		Apr. 5				
0. 30	22. 28. 0	0. 30	·0998	0. 30	·01660	1. 40	53 ·0	55 ·0
3 15	31. 0	0. 52	·1000	2. 29	·01507	3. 40	58 ·0	60 ·0
6. 37	21. 0	2. 16	·1012	4. 12	·01205	9. 40	56 ·0	57 ·5
11. 40	16. 40	2. 49	·1027	7. 30	·01274	22. 55	45 ·0	47 ·0
23. 20	20. 40	4. 18:	·1006	9. 39	·01210			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

March 28 to April 3. The Photographic time-piece for the movement of the Declination and Horizontal Force cylinder was away for repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Apr. 5 h m		Apr. 5 h m		h m	°	°
		4. 44:	·1040	16. 50	·01770			
		5. 30	·1018	23. 30	·01652			
		6. 0:	·1026					
		6. 33:	·1011					
		7. 0	·1023					
		7. 15	·1020					
		8. 2:	·1027					
		8. 21	·1022					
			***					
		15. 46	·1042					
		18. 38	·1045					
		23. 25	·1026					
Apr. 6		Apr. 6		Apr. 6				
0. 0	22. 22. 0	0. 0	·1022	0. 0	·01641	11. 40	49 ·0	50 ·0
3. 0	28. 30	0. 22	·1009	5. 30	·01520	21. 40	43 ·5	46 ·5
7. 10	18. 20	1. 21	·1027	11. 0	·01210			
7. 35	17. 0	1. 40	·1017	11. 58	·01184			
7. 50	10. 30	2. 34	·1030	12. 55	·01160			
8. 12	7. 10		***	18. 2	·01622			
9. 5	16. 0	5. 35	·1040	23. 30	·01570			
11. 35	17. 10	5. 54	·1029					
12. 35:	24. 50		***					
13. 20	15. 10	7. 23	·1040					
15. 50:	13. 10	7. 40	·1056					
16. 50	18. 10	8. 5	·1044					
20. 47	12. 30	8. 17	·1047					
23. 55	22. 0	8. 46	·1038					
		10. 9	·1036					
		10. 21	·1042					
		11. 38	·1039					
		12. 31	·1055					
		13. 19	·1039					
		13. 42	·1044					
		14. 34	·1038					
		15. 25	·1046					
			***					
		18. 0	·1050					
		19. 0	·1055					
		23. 55	·1018					
Apr. 7		Apr. 7		Apr. 7				
0. 27	22. 25. 40	1. 0	·1018	1. 15	·01212	1. 40	47 ·0	51 ·0
6. 55	19. 20	2. 5	·1023	3. 15	·01029	3. 40	50 ·0	52 ·5
8. 20:	15. 30	2. 45	·1020	5. 30	·01130	9. 40	52 ·0	53 ·5
9. 0:	20. 30	3. 30	·1030	9. 37	·01072	21. 40	48 ·5	51 ·5
11. 40	11. 50	3. 50	·1021	18. 0	·01355			
12. 10	16. 10	4. 15	·1032	23. 0	·01535			
18. 30	18. 50		***	23. 55	·01488			
21. 15:	11. 0	6. 42	·1030					
23. 55	22. 20	6. 58	·1037					
		7. 44	·1034					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Apr. 7 h m		h m		h m	°	°
		8. 25	·1038					
		8. 44	·1030					
		8. 52	·1038					
		9. 10	·1030					
		10. 22	·1040					
		10. 46	·1029					
		11. 7	·1034					
		11. 29	·1029					
		11. 57	·1053					
		12. 40	·1031					
		17. 30	·1037					
		18. 5	·1046					
		19. 22	·1048					
		20. 45	·1038					
		22. 55	·1006					
		23. 55	·1006					
Apr. 8		Apr. 8		Apr. 8				
0. 37	22. 25. 20	0. 38	·1007	0. 30	·01400	1. 40	54 ·0	56 ·0
2. 0:	28. 30	4. 0	·1022	2. 28	·01180	3. 40	58 ·0	60 ·0
6. 10:	17. 10	4. 23	·1016	3. 45	·01220	9. 40	55 ·0	57 ·0
10. 45	17. 50	5. 44	·1025	7. 0	·01175	21. 40	48 ·5	51 ·0
11. 0	14. 20	6. 2:	·1019	9. 28	·01170			
23. 55	19. 40	6. 30:	·1029	17. 40	·01745			
		7. 0	·1024	22. 30	·01660			
		10. 44	·1033	23. 55	·01685			
		11. 3	·1046					
		11. 30	·1037					
		14. 15:	·1034					
		19. 28	·1042					
			(†)					
		22. 28	·1031					
		23. 50	·1017					
Apr. 9		Apr. 9		Apr. 9				
0. 20	22. 22. 0	0. 18	·1023	0. 30	·01715	1. 40	49 ·0	50 ·0
9. 0	22. 30	1. 23:	·1013	5. 0	·01398	3. 40	55 ·0	57 ·0
15. 20	18. 30	5. 4	·1034	9. 54	·01190	9. 40	52 ·0	54 ·5
23. 55	21. 30	8. 2	·1033	15. 0	·01414	21. 40	48 ·0	49 ·5
		9. 17	·1039	18. 38	·01718			
		13. 23	·1036	21. 0	·01690			
		13. 56:	·1034	22. 55	·01713			
		14. 28	·1038	23. 55	·01672			
		16. 10	·1035					
		16. 30	·1040					
		17. 42	·1040					
		19. 15	·1047					
		23. 0	·1016					
		23. 55	·1018					
Apr. 10		Apr. 10		Apr. 10				
0. 55	22. 23. 30	1. 0	·1016	1. 30	·01470	1. 47	53 ·0	55 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 10		Apr. 10		Apr. 10				
h m	° ′ ″	h m		h m		h m	°	°
6. 35	22. 22. 10	2. 5	·1012	3. 40	·01192	3. 40	56 · 0	58 · 0
7. 10:	16. 30		***	4. 45	·01220	9. 40	55 · 0	57 · 0
8. 5	20. 30	5. 55	·1029	6. 30	·01205	21. 40	49 · 5	52 · 0
16. 10	21. 0	6. 50	·1020	7. 30	·01230			
19. 30	20. 30	7. 17	·1029	9. 31	·01182			
10. 20:	14. 10	7. 30	·1025	17. 0	·01550			
23. 55	20. 0	8. 20	·1020	20. 15	·01770			
		19. 45	·1043	21. 58	·01730			
		23. 55	·1009	23. 15	·01755			
				23. 55	·01725			
Apr. 11		Apr. 11		Apr. 11				
0. 10	22. 21. 0	0. 30	·1008	0. 30	·01642	1. 40	54 · 0	56 · 0
3. 40	24. 40	6. 10	·1029	2. 13	·01463	3. 40	58 · 0	60 · 0
12. 35	21. 40	7. 35	·1024	4. 43	·01210	9. 40	55 · 0	57 · 5
13. 12:	17. 30		***	5. 30	·01221	21. 40	49 · 5	52 · 0
14. 40	21. 50	12. 35	·1037	9. 15	·01205			
20 55	16. 40	12. 51	·1045	16. 0	·01550			
		13. 20	·1037	18. 25	·01770			
		16. 21	·1038	21. 0	·01735			
		17. 35	·1050	22. 45	·01755			
		20. 40	·1040	23. 55	·01720			
			(†)					
Apr. 12		Apr. 12		Apr. 12				
0. 20	22. 27. 0	0. 25	·1014	0. 30	·01657	1. 40	53 · 0	55 · 0
7. 40	19. 30		***	3. 16	·01363	3. 40	59 · 0	61 · 0
22. 12	19. 30	10. 50	·1031	6. 30	·01235	9. 40	57 · 0	59 · 0
		16. 45	·1036	7. 33	·01250	22. 40	48 · 0	50 · 0
		17. 10:	·1032	9. 0	·01227			
		17. 58	·1042	15. 12	·01570			
		20. 0	·1042	22. 11	·01465			
		22. 11	·1034					
		23. 55	·1030					
Apr. 13		Apr. 13		Apr. 13				
0. 0	22. 23. 0	0. 0	·1029	0. 30	·01695	8. 33	53 · 0	55 · 0
2. 0:	25. 30	4. 0	·1028	8. 23	·01155	21. 40	46 · 0	48 · 5
7. 35	20. 40	4 15	·1026	11. 0	·01083			
19. 30	19. 30	4. 45	·1030	18. 48	·01692			
21. 50:	16. 30	9. 15	·1036	22. 5	·01655			
23. 55	21. 0	19. 45	·1048					
		23. 0	·1022					
		23. 55	·1020					
Apr. 14		Apr. 14		Apr. 14				
0. 15	22. 24. 40	0. 15	·1022	0. 30	·01410	1. 40	52 · 0	52 · 8
7. 35	21. 40	4. 0	·1018	3. 25	·01110	3. 40	55 · 0	58 · 0
19. 35	19. 40	4. 52	·1029	4. 50	·01169	9. 45	54 · 0	56 · 0
21. 10:	12. 30	5. 16	·1024	6. 30	·01150	21. 45	49 · 0	52 · 0
23. 55	22. 0	6. 30	·1030	7. 45	·01170			
		8. 4	·1030	10. 40	·01128			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Apr. 14		Apr. 14				
h m	° ′ ″	h m		h m		h m	°	°
		8. 29	·1025	18. 0	·01485			
		9. 0	·1030	22. 45	·01733			
		19. 0	·1044	23. 55	·01688			
		23. 55	·1021					
Apr. 15		Apr. 15		Apr. 15				
0. 20	22. 24. 10	0. 45	·1018	0. 30	·01635	1. 40	55 · 0	57 · 0
2. 28	30. 0	2. 13	·1014	2. 25	·01448	3. 40	59 · 0	61 · 0
7. 10	19. 40	2. 25	·1018	4. 5	·01240	9. 40	57 · 5	59 · 0
19. 10	18. 50	3. 0	·1010	5. 30	·01272	21. 40	50 · 0	51 · 0
21. 45:	11. 40	7. 40	·1030	9. 38	·01235			
23. 55	20. 50	11. 0	·1035	16. 0	·01550			
		13. 0	·1036	19. 15	·01820			
		18. 15:	·1046	21. 56	·01769			
		20. 30	·1037	23. 0	·01783			
		23. 0	·1011	23. 55	·01758			
		23. 55	·1010					
Apr. 16		Apr. 16		Apr. 16				
0. 40	22. 24. 30	0. 36	·1013	1. 30	·01665	1. 40	54 · 0	56 · 0
12. 20	19. 30	3. 43	·1022	3. 17	·01602	3. 40	59 · 0	61 · 0
14. 30:	9. 40	5. 30:	·1031	5. 5	·01292	9. 40	59 · 0	60 · 0
15. 15	14. 10	7. 30:	·1029	5. 30	·01307	21. 45	55 · 0	58 · 0
16. 20	13. 50	8. 42	·1036	6. 45	·01292			
17. 15	17. 30		***	8. 10	·01303			
20. 18	16. 50	11. 26	·1027	9. 23	·01248			
21. 20:	11. 30		***	16. 35	·01671			
23. 59	16. 0	12. 52	·1050	22. 8	·01684			
		13. 46	·1022	23. 45	·01550			
		14. 17:	·1036					
		15. 2	·1021					
		15. 43	·1035					
		15. 49	·1024					
		16. 10	·1034					
			***					
		19. 2	·1043					
		22. 15	·1013					
			***					
		23. 59	·1016					
Apr. 17		Apr. 17		Apr. 17				
0. 12	22. 27. 0	0. 13	·1003	0. 30	·01657	1. 40	59 · 0	61 · 0
2. 13:	33. 40	0. 58	·1015	2. 28	·01451	3. 40	60 · 0	63 · 0
4. 0	30. 40	1. 35	·1005	3. 40	·01318	9. 40	62 · 0	63 · 0
7. 30	21. 20	1. 50	·1017	4. 15	·01361	22. 56	56 · 0	58 · 0
9. 5	22. 30		***	7. 25	·01415			
10. 35:	10. 20	2. 56	·1004	7. 28	·01542			
12. 4:	17. 40		***	8. 15	·01502			
12. 32:	15. 20	3. 48	·1022	8. 45	·01549			
13. 28:	22. 30	4. 4	·1043	16. 25	·01940			
14. 12:	21. 20	5. 2	·1015	23. 5	·01890			
14. 30	24. 40	5. 15	·1032					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 17	° ′ ″	Apr. 17						
h m		h m		h m		h m	°	°
19. 30	22. 18. 30	5. 55	·1019					
23. 10	21. 40	6. 28	·1030					
			***					
		7. 14	·1014					
		7. 47:	·1022					
		8. 6	·1018					
		9. 40	·1028					
		10. 7:	·1019					
		10. 45	·1029					
		10. 58	·1024					
		11. 12	·1029					
		12. 30	·1006					
			***					
		17. 2	·1033					
		20. 0	·1026					
		23. 12	·1005					
Apr. 18		Apr. 18		Apr. 18				
0. 0	22. 24. 50	0. 0	·1004	0. 30	·01890	12. 5	63 ·0	65 ·0
2. 15:	31. 30	5. 28	·1020	5. 15	·01395	21. 40	54 ·0	56 ·0
7. 28	22. 30	5. 43:	·1026	7. 35	·01439			
18. 35	21. 40	6. 9:	·1018	8. 18	·01390			
21. 40	14. 0	9. 47	·1032	8. 45	·01409			
22. 15	17. 30	10. 22	·1024	9. 50	·01378			
		11. 0	·1032	12. 19	·01488			
		11. 16	·1026	16. 20	·01845			
		12. 19	·1034	21. 56	·01750			
		12. 52	·1036	23. 55	·01738			
		18. 3	·1038					
		18. 32	·1034					
		19. 45:	·1039					
		21. 30	·1028					
		22. 15	·1008					
Apr. 19		Apr. 19		Apr. 19				
0. 30	22. 29. 0	0. 30	·0996	0. 32	·01832	1. 40	60 ·0	63 ·0
7. 30	19. 10	1. 33	·0988	3. 25	·01392	3. 40	64 ·0	66 ·0
10. 58	26. 10	3. 51	·1000	6. 20	·01453	9. 40	64 ·0	67 ·0
11. 20:	11. 40	5. 17	·1004	8. 15	·01622	23. 20	55 ·0	58 ·0
11. 37:	14. 50	5. 45	·1012	9. 30	·01602			
12. 0	12. 30	7. 30	·1004	11. 3	·01690			
12. 15	14. 30	10. 32	·1023	11. 25	·01670			
16. 35	21. 40	11. 13	·1006	14. 12	·01998			
	***	11. 34	·1036		***			
23. 35	21. 30	11. 58	·1013	23. 45	·01863			
		12. 40	·1003					
		13. 26	·1022					
		16. 30	·1027					
			***					
		18. 32	·1040					
			***					
		21. 5	·1014					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Apr. 19 h m		h m		h m	°	°
		22. 0	·1000					
		22. 15	·0997					
		22. 35	·0998					
		22. 50	·1000					
		23. 19	·1006					
		23. 40	·1000					
Apr. 20		Apr. 20		Apr. 20				
0. 0	22. 23. 20	0. 0	·0998	0. 0	·01838	11. 57	60 ·0	63 ·0
7. 0	21. 20	0. 14	·0993	0. 15	·01824	21. 45	59 ·5	63 ·0
8. 20:	21. 30		***	4. 25	·01308			
9. 0	20. 0	3. 0	·1014	5. 10	·01324			
16. 20:	23. 30	3. 10	·1010	6. 30	·01334			
18. 55	19. 0	6. 8	·1028	8. 15	·01429			
20. 12	24. 30	6. 40	·1022	11. 30	·01347			
21. 15	20. 20	6. 58	·1030	13. 10	·01378			
23. 55	21. 30	7. 30	·1029	14. 0	·01390			
		8. 0	·1006	23. 0	·01783			
		8. 30	·1019					
		14. 40	·1022					
		15. 30	·1015					
		16. 30:	·1025					
		17. 10	·1020					
		18. 0:	·1022					
		19. 50	·1010					
		20. 22:	·1018					
		21. 30	·0988					
		22. 12	·0994					
		23. 20	·0978					
		23. 55	·0978					
Apr. 21		Apr. 21		Apr. 21				
1. 10	22. 24. 30	0. 0	·0977	1. 35	·01670	1. 40	63 ·0	66 ·0
2. 15:	26. 20	0. 47	·0976	2. 30	·01612	3. 40	64 ·0	66 ·0
2. 30:	23. 20	2. 10	·1003		***	9. 40	61 ·0	63 ·0
2. 40:	25. 30	2. 19	·1001	4. 45	·01625	21. 50	58 ·0	60 ·0
4. 10	20. 20	2. 30	·0985	9. 13	·01639			
5. 25	25. 20	3. 4	·1017	15. 32	·02012			
9. 0	22. 30	4. 5	·0993	22. 24	·01840			
9. 35	14. 0	4. 20	·1005	23. 55	·01789			
20. 35	18. 30	4. 35	·1005					
21. 15:	15. 0	4. 41	·1011					
22. 0	18. 40	4. 58	·1000					
23. 55	22. 10	5. 25	·1016					
		5. 39	·1008					
		7. 15	·1016					
		7. 32	·1012					
		9. 30	·1026					
		10. 6	·1011					
		10. 53	·1024					
		11. 20	·1016					
		13. 0	·1020					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to several times near that which is recorded.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Apr. 21 h m		h m		h m	°	°
		18. 30	·1027					
		20. 0	·1025					
		21. 0	·1019					
		22. 30	·1000					
		23. 5	·0997					
		23. 55	·0998					
Apr. 22		Apr. 22		Apr. 22				
1. 3	22. 26. 50	0. 12	·1003	1. 10	·01742	1. 40	62 ·0	63 ·0
9. 0:	19. 30	0. 30	·0998	6. 15	·01550	3. 40	63 ·0	65 ·0
9. 45	22. 20	1. 3	·1012	7. 40	·01577	9. 40	60 ·0	63 ·0
11. 20	21. 20	1. 33	·1003	10. 4	·01552	21. 45	54 ·0	56 ·0
11. 47:	18. 40	3. 37	·1011	13. 40	·01769			
12. 30:	23. 0	3. 47	·1004 ***	14. 3	·01735			
13. 35:	19. 30			19. 0	·01960			
13. 50	22. 0	4. 15	·1018	22. 11	·01815			
23. 50	23. 0	6. 29	·1018	23. 55	·01592			
		6. 34	·1026					
		7. 0	·1021					
		7. 45	·1027					
		8. 47	·1018					
		9. 2	·1030					
		9. 23	·1024 ***					
		11. 20	·1028					
		11. 35:	·1038					
		11. 55	·1034					
		12. 10	·1039					
		12. 46	·1027 ***					
		13. 13	·1045					
		13. 17	·1040					
		13. 22	·1048					
		13. 33	·1039					
		13. 38	·1043					
		13. 40	·1037					
		13. 52	·1056 ***					
		14. 28	·1020					
		14. 35	·1029 ***					
		19. 0	·1040 ***					
		20. 30	·1032 ***					
		22. 0	·1016 ***					
		22. 50	·1015					
		22. 55	·1008					
		23. 3	·1015					
		23. 25	·1004					
		23. 30	·1014 ***					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Apr. 22 h m		h m		h m	°	°
		23. 55	·1012					
Apr. 23		Apr. 23		Apr. 23				
0. 37	22. 25. 20	0. 33	·1004	0. 33	·01371	1. 40	60 ·0	63 ·0
7. 30	20. 30	1. 21	·1016 ***	1. 28	·01242	3. 40	63 ·0	67 ·0
8. 20:	12. 40			4. 15	·01343	9. 40	60 ·5	64 ·0
8. 43:	15. 0	4. 0	·1006	6. 0	·01319	21. 40	53 ·0	55 ·0
9. 5:	10. 30	5. 20	·1006	8. 30	·01547			
12. 25	20. 30	5. 30	·1012	14. 10	·01925			
13. 5:	20. 0	5. 45	·1006	21. 53	·01852			
13. 25:	23. 30	6. 10	·1008	23. 55	·01612			
15. 45:	18. 20	6. 31	·1017 ***					
16. 50	21. 0							
23. 55	25. 0	7. 29	·1011					
		7. 38	·1018					
		8. 12	·1014					
		8. 29	·1032					
		8. 58	·1022					
		9. 11	·1042					
		9. 58	·1015					
		10. 9	·1019					
		10. 28	·1009					
		10. 53	·1017					
		11. 19	·1011 ***					
		13. 13	·1032					
		13. 43	·1023					
		13. 53	·1028 ***					
		15. 45	·1034					
		16. 30	·1026					
		18. 40	·1030 ***					
		19. 11	·1034					
		21. 12	·1010					
		21. 29	·1014					
		23. 30:	·1000					
Apr. 24		Apr. 24		Apr. 24				
0. 15	22. 26. 10	0. 0	·1003	0. 30	·01514	1. 40	60 ·0	64 ·0
3. 10	23. 50	0. 48:	·1007	1. 55	·01260	3. 40	63 ·0	63 ·0
6. 25	16. 30	1. 20:	·1002	8. 50	·01500	9. 40	65 ·0	68 ·0
6. 55	20. 30	1. 47	·1006	9. 55	·01480	21. 40	56 ·0	59 ·0
9. 45:	19. 40	2. 9	·1003	15. 33	·02000			
23. 55	19. 10	2. 50:	·1016	22. 3	·01910			
		3. 10	·1001	23. 55	·01941			
		4. 30	·1019					
		5. 2:	·1014					
		5. 44	·1023					
		6. 13	·1013					
		6. 39	·1038					
		7. 3	·1029					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Apr. 24 h m		h m		h m	□	○
		7. 13	·1034					
		7. 39	·1024					
		9. 2	·1023					
		9. 15	·1034					
		10. 27:	·1021					
		10. 43:	·1023					
		11. 2:	·1021					
		11. 29:	·1033					
		12. 30	·1026					
		18. 0	·1037					
		23. 51	·1021					
Apr. 25		Apr. 25		Apr. 25				
0. 25	22. 22. 10	0. 30	·1022	0. 30	·01937	1. 55	58 ·0	60 ·0
7. 35	18. 10	1. 5:	·1026	6. 0	·01623	3. 40	59 ·0	60 ·0
9. 40	20. 10	1. 51	·1021	9. 53	·01435	9. 40	60 ·0	63 ·0
21. 40	14. 0	3. 7:	·1032	16. 12	·01903	21. 40	53 ·0	55 ·0
23. 55	20. 20	3. 57	·1027	19. 30	·01867			
		5. 53	·1039	20. 35	·01913			
		6. 3	·1035	23. 55	·01709			
		6. 17	·1042					
		6. 41	·1044					
		6. 50	·1040					
		7. 22	·1040					
		7. 39:	·1054					
		8. 0	·1042					
		9. 53	·1031					
		10. 38	·1029					
		10. 47	·1048					
		11. 11	·1038					
			***					
		11. 46	·1019					
		22. 18	·1036					
		23. 17	·1023					
		23. 55	·1022					
Apr. 26		Apr. 26		Apr. 26				
0. 17	22. 21. 0	0. 30	·1024	0. 30	·01529	1. 40	56 ·0	59 ·0
2. 30	26. 20	1. 10	·1028	2. 59	·01249	3. 40	60 ·0	65 ·0
9. 25	19. 30	1. 45	·1021	3. 50	·01267	9. 40	58 ·0	60 ·0
23. 20	19. 30	2. 10	·1028	5. 12	·01234	22. 45	48 ·5	52 ·5
		2. 59	·1023	8. 15	·01317			
		3. 55	·1032	9. 42	·01288			
		4. 30	·1024	15. 55	·01874			
		5. 8	·1025	23. 30	·01669			
		6. 12	·1040					
		6. 45	·1034					
		7. 17	·1039					
		8. 18	·1037					
		17. 45	·1053					
		21. 0	·1048					
		23. 25	·1034					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 27 h m	° ′ ″	Apr. 27 h m		Apr. 27 h m		h m	○	○
0. 0	22. 22. 20	0. 0	·1038	0. 0	·01659	7. 40	55 ·0	58 ·0
5. 37	20. 50	5. 36	·1046	4. 0	·01488	21. 40	47 ·5	52 ·0
8. 5	17. 0	5. 44	·1068	6. 55	·01170			
11. 15:	15. 0	6. 40	·1052	8. 5	·01234			
12. 55:	19. 0		***	10. 30	·01100			
14. 0:	20. 20	8. 10	·1062	11. 0	·01090			
15. 20:	19. 20	9. 15:	·1044	13. 30	·01249			
16. 40:	22. 20	9. 56	·1076	18. 33	·01690			
17. 20	18. 30	10. 7	·1072	22. 40	·01547			
18. 30:	23. 20	10. 10	·1078					
21. 20	13. 20	10. 23	·1062					
23. 55	21. 20	10. 40	·1070					
		11. 0	·1042					
		11. 20	·1051					
		11. 45	·1042					
		12. 28	·1056					
		13. 10	·1046					
		13. 27	·1054					
		13. 54	·1048					
		16. 10	·1052					
		16. 40	·1064					
		18. 5	·1040					
		18. 55	·1060					
		20. 15	·1065					
		22. 23	·1035					
		23. 55	·1032					
Apr. 28		Apr. 28		Apr. 28				
1. 10	22. 23. 50	1. 0	·1030	1. 0	·01355	1. 40	53 ·0	55 ·0
9. 40	18. 10	4. 0	·1030	3. 10	·01134	3. 40	57 ·0	59 ·8
15. 10	20. 30	5. 40	·1045	9. 24	·01260	9. 40	56 ·0	59 ·0
15. 40:	19. 30	6. 15	·1039	14. 55	·01784	21. 40	48 ·0	51 ·0
16. 25:	22. 10	7. 0	·1046	19. 0	·01682			
20. 45	19. 10	7. 50	·1046	23. 55	·01495			
21. 10:	14. 10	9. 4	·1030					
23. 55	20. 30	14. 25	·1049					
		14. 40	·1048					
		14. 50	·1052					
		15. 0	·1048					
		15. 10	·1054					
		15. 40	·1049					
		18. 8	·1057					
		18. 55	·1065					
		20. 50	·1050					
		22. 26	·1031					
		23. 5	·1029					
		23. 33	·1034					
		23. 55	·1027					
Apr. 29		Apr. 29		Apr. 29				
0. 20	22. 21. 30	0. 20	·1028	0. 30	·01445	1. 40	53 ·0	56 ·0
1. 20	25. 20	0. 45	·1036	3. 10	·01153	3. 40	58 ·0	60 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 29		Apr. 29		Apr. 29				
h m	° ′ ″	h m		h m		h m	°	°
6. 0	22. 21. 30	3. 58	·1030	4. 30	·01217	9. 40	57 ·0	60 ·0
19. 55	19. 30	6. 55	·1045	6. 30	·01197	21. 45	50 ·0	52 ·0
21. 32:	13. 0	12. 50	·1044	7. 55	·01224			
23. 47	20. 20	13. 15	·1048	9. 15	·01212			
		18. 45	·1057	15. 50	·01773			
		18. 50	·1052	20. 30	·01678			
		18. 54	·1062	21. 49	·01700			
		19. 3	·1046	23. 30	·01504			
		21. 49	·1028					
		23. 30	·1016					
Apr. 30		Apr. 30		Apr. 30				
0. 28	22. 22. 30	0. 45	·1012	0. 30	·01372	1. 40	57 ·0	59 ·0
5. 20	20. 20	2. 24	·1026	2. 20	·01143	3. 40	59 ·0	61 ·0
19. 40	19. 30	4. 28	·1025	8. 25	·01310	9. 40	58 ·5	62 ·0
21. 25:	12. 40	5. 28	·1040	9. 33	·01282	21. 40	52 ·0	54 ·0
23. 58	21. 40	7. 25	·1032	16. 27	·01833			
		11. 0	·1041	20. 30	·01747			
		14. 0	·1044	21. 51	·01760			
		18. 0	·1052	23. 55	·01644			
		18. 30	·1050					
		18. 45	·1048					
		18. 52	·1044					
		18. 55	·1048					
		19. 12	·1038					
		19. 30	·1040					
		20. 50	·1031					
		23. 30	·1021					
May 1		May 1		May 1				
0. 25	22. 23. 20	0. 24	·1020	0. 30	·01570	1. 40	55 ·0	58 ·0
2. 7:	27. 20	4. 13	·1032	3. 58	·01197	3. 40	59 ·0	61 ·0
5. 30	23. 30	4. 45	·1029	5. 20	·01250	9. 40	59 ·0	61 ·8
8. 50	18. 10	5. 5	·1038	6. 25	·01265	21. 45	50 ·0	53 ·0
10. 15:	6. 30		***	7. 0	·01278			
11. 15:	11. 40	6. 50	·1040	8. 0	·01319			
11. 25:	10. 0	7. 8	·1030	8. 30	·01370			
11. 55	16. 40	7. 28	·1040	9. 6	·01364			
12. 42:	4. 50	8. 6	·1037	11. 35	·01498			
13. 25	15. 10	8. 42	·1047	12. 0	·01463			
14. 17	15. 10	9. 56	·1026	13. 25	·01585			
14. 40:	8. 0	10. 15	·1033	14. 10	·01604			
15. 20	14. 40	11. 4	·1014	14. 24	·01625			
16. 12	10. 20	11. 40	·1051	14. 28	·01612			
16. 40	14. 20	12. 5	·1017	15. 12	·01700			
17. 5	11. 20	12. 29	·1030	15. 25	·01697			
18. 50	26. 20	13. 13	·1022	16. 10	·01762			
	***	13. 50	·1048		***			
20. 30	14. 30	14. 11	·1030	19. 0	·01693			
	***	14. 25	·1043		***			
23. 58	29. 0	14. 42	·1038	21. 56	·01760			
		15. 25	·1063		***			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		May 1		May 1				
h m	° ′ ″	h m		h m		h m	°	°
		15. 45	·1043	23. 55	·01642			
			***					
		16. 34	·1074					
			***					
		17. 46	·1029					
		18. 0	·1028					
		18. 30:	·1043					
		19. 9	·1016					
			***					
		20. 8	·1018					
		20. 11	·1028					
		20. 16	·1008					
		20. 20	·1021					
			***					
		21. 30	·1004					
		22. 6	·1004					
		22. 50	·0986					
			***					
		23. 30	·0996					
May 2		May 2		May 2				
0. 5	22. 28. 30	0. 11	·1003	0. 3	·01620	1. 40	59 ·0	61 ·0
1. 42	34. 50	0. 20	·0994		***	3. 40	64 ·0	66 ·0
2. 28:	24. 40	0. 45	·1008	2. 33	·01350	9. 40	60 ·0	62 ·0
3. 17	27. 30	0. 58	·0996		***	21. 40	52 ·5	56 ·0
6. 13	22. 20		***	9. 30	·01510			
10. 12	19. 0	1. 53	·0973	14. 25	·01891			
10. 32	14. 30	2. 40	·1007	21. 28	·01750			
11. 23	18. 10		***					
12. 35:	22. 50	9. 51	·1021					
13. 45	17. 30	10. 35	·1039					
19. 45	19. 40	10. 50	·1027					
21. 35	12. 0	11. 18	·1044					
	***	11. 35	·1037					
23. 55	19. 0	11. 50	·1069					
		12. 8	·1057					
		12. 56	·1034					
		18. 0	·1043					
			***					
		19. 30	·1022					
			***					
		21. 19	·1024					
			***					
		22. 8	·1011					
			***					
		23. 55	·1006					
May 3		May 3		May 3				
0. 35	22. 20. 30	0. 40	·1005	1. 0	·01650	1. 40	55 ·0	58 ·8
2. 35:	24. 40	1. 30	·1002	2. 59	·01555	3. 40	59 ·0	60 ·0
5. 44	20. 10	2. 7	·1007	5. 30	·01350	9. 40	56 ·0	61 ·0
7. 50	19. 40	2. 44	·1003	8. 0	·01325	23. 11	49 ·0	51 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 3		May 3		May 3				
h m	° ′ ″	h m		h m		h m	°	°
8. 6:	22. 17. 0	2. 59	·1003	8. 15	·01329			
8. 25:	21. 10	3. 30	·1026	10. 0	·01234			
8. 50:	19. 10	3. 35	·1018	16. 45	·01755			
9. 5	20. 20	4. 1	·1013	18. 25	·01721			
10. 10	12. 10		***	19. 0	·01752			
11. 12	18. 20	5. 20	·1036	23. 18	·01721			
13. 25	22. 20	6. 18	·1029					
23. 15	20. 30	7. 13	·1037					
		7. 55	·1025					
		8. 21	·1044					
		8. 40	·1024					
		9. 8	·1036					
		9. 30	·1030					
		10. 20	·1040					
		11. 22	·1024					
		11. 42	·1038					
		12. 0	·1031					
		12. 52	·1040					
		16. 8	·1032					
			***					
		18. 22	·1049					
		20. 31	·1036					
		21. 40	·1039					
		22. 22	·1027					
		22. 39	·1028					
		23. 18	·1014					
May 4		May 4		May 4				
0. 0	22. 19. 40	0. 0	·1012	0. 0	·01641	11. 19	50 ·0	42 ·0
9. 55	21. 10	1. 23	·1020	4. 30	·01535	21. 48	45 ·5	50 ·0
10. 25:	16. 20	1. 42	·1016	10. 15	·01295			
10. 43:	22. 30	3. 29	·1037	18. 30	·01671			
11. 5	20. 20	3. 43	·1038	23. 55	·01500			
13. 25	26. 30	4. 18	·1050					
17. 12	24. 30	5. 40	·1038					
21. 8	18. 0	6. 14	·1055					
22. 45	13. 40	6. 37	·1049					
		6. 52	·1056					
		7. 42	·1044					
		13. 55	·1043					
		19. 45	·1044					
		22. 45	·1026					
May 5		May 5		May 5				
0. 40	22. 23. 0	1. 0	·1011	0. 45	·01320	1. 40	50 ·5	55 ·0
3. 5	28. 40	3. 0	·1024	2. 45	·01109	3. 40	54 ·0	57 ·0
3. 40:	24. 20		***	5. 45	·01225	9. 40	54 ·0	58 ·5
4. 0	26. 0	3. 14	·1052	6. 25	·01208	21. 40	49 ·5	53 ·0
7. 42	21. 0	3. 40	·1016	7. 48	·01277			
8. 0	23. 0	5. 2	·1056	9. 37	·01212			
8. 35	20. 0	5. 12	·1052	10. 55	·01221			
8. 50	22. 30	5. 51	·1060	11. 17	·01210			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 5		May 5		May 5				
h m	° ′ ″	h m		h m		h m	°	°
9. 32:	22. 18. 40	6. 24	·1038	17. 0	·01600			
10. 5:	22. 0	7. 7	·1070	19. 33	·01790			
10. 47:	14. 30	7. 42	·1032	22. 14	·01745			
12. 32	21. 40	8. 18	·1050	23. 55	·01720			
19. 0	20. 40	8. 33	·1040					
21. 40	15. 0		***					
23. 58	20. 20	8. 37	·1052					
		9. 37	·1050					
		10. 20	·1030					
		10. 55	·1072					
			***					
		11. 44	·1034					
			***					
		13. 22	·1047					
		16. 37	·1046					
		17. 0	·1043					
		23. 30	·1028					
May 6		May 6		May 6				
0. 40	22. 22. 30	1. 0	·1018	1. 0	·01625	1. 40	55 ·0	57 ·0
2. 35	26. 50	2. 4	·1015	2. 4	·01542	3. 40	55 ·0	57 ·0
6. 30	21. 0	2. 32	·1024	4. 10	·01267	9. 40	57 ·0	60 ·0
9. 24	21. 0	3. 38	·1008	5. 15	·01285	21. 40	53 ·0	56 ·0
10. 23:	18. 10		***	6. 45	·01262			
11. 30	20. 30	5. 3	·1033	8. 15	·01297			
20. 0	20. 10		***	9. 46	·01263			
21. 20	15. 40	6. 24	·1041	16. 0	·01574			
23. 55	21. 40		***	19. 15	·01830			
		8. 52	·1045	20. 35	·01795			
		9. 55	·1035	22. 40	·01830			
		10. 15	·1044	23. 55	·01712			
		10. 32	·1040					
		16. 30	·1043					
			***					
		19. 30	·1042					
			***					
		21. 10	·1035					
		21. 38	·1038					
		21. 49	·1032					
		23. 55	·1003					
May 7		May 7		May 7				
0. 0	22. 22. 10	0. 0	·1004	0. 30	·01595	1. 40	58 ·0	60 ·0
2. 12	26. 30		***	2. 39	·01295	3. 40	62 ·0	64 ·0
7. 30	18. 10	2. 23	·1009	5. 0	·01362	9. 40	62 ·0	64 ·0
16. 8	21. 30	3. 25	·1021	5. 5	·01420	21. 40	58 ·0	58 ·5
16. 33:	28. 30		***	9. 56	·01562			
17. 30	22. 20	6. 20	·1009	16. 15	·01900			
23. 58	26. 30	6. 23	·1016	17. 10	·01819			
		7. 23	·1012	21. 56	·01888			
		15. 0	·1029	23. 55	·01819			
		15. 10	·1026					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	Readings of Thermometers. On V. F. Magnet.
h m	° ′ ″	May 7 h m		h m		h m	°	°
		15. 18	·1033					
		15. 29	·1030					
		15. 56:	·1034					
		16. 22	·1036					
		16. 50	·1038					
		17. 21	·1032					
		18. 46	·1036 ***					
		19. 35	·1014					
		21. 0	·1010					
		22. 40	·0981					
		23. 55	·0978					
May 8		May 8		May 8				
0. 0	22. 27. 20	0. 0	·0983	0 30	·01755	1. 40	60. 0	63. 0
0. 28	23. 40	0. 17	·0974	6. 15	·01390	3. 40	63. 0	66. 0
3. 45:	29. 0	0. 38	·1003 ***	9. 46	·01420	9. 40	64. 0	66. 0
4. 37:	21. 50			14. 50	·01820	21. 45	57 ·0	59 ·0
5. 15	25. 40	1. 22	·0991 ***	19. 0	·01765			
10. 10:	11. 40			23. 55	·01747			
10. 43	19. 40	1. 35	·1002					
14. 20	14. 0	3. 12	·0989					
17. 30	18. 40	3. 42	·1007					
20. 0	16. 10	4. 30	·0972					
20. 50	12. 20	4. 48	·0979					
23. 55	20. 20	5. 0	·0975					
		6. 48	·1004 ***					
		9. 46	·1000					
		10. 15	·1016					
		10. 47	·1003					
		11. 55	·1008					
		12. 42	·1005					
		13. 38	·1020 ***					
		17. 40	·1016					
		18. 45	·1024					
		23. 20	·0982					
May 9		May 9		May 9				
0. 35	22. 20. 30	1. 0	·0983	0. 35	·01755	1. 40	64 ·0	66 ·0
11. 28	20. 10	1. 51	·0996	2. 15	·01582	3. 40	63 ·0	65 ·0
13. 40	15. 40	2. 30	·0990	4. 32	·01340	9. 40	64 ·0	67 ·5
15. 0	18. 0	3. 21	·1005	8. 25	·01498	21. 40	60 ·0	63 ·0
23. 55	25. 40	3. 46	·0998	9. 30	·01419			
		7. 15	·1010	17. 50	·01989			
		7. 30	·1013	20. 0	·01958			
		8. 10	·1004	21. 28	·01980			
		8. 30	·1009	23. 55	·01762			
		12. 20	·1006					
		13. 13	·1022 ***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	Readings of Thermometers. On V. F. Magnet.
h m	° ′ ″	May 9 h m		h m		h m	°	°
		18. 50	·1013 ***					
		18. 58	·1004 ***					
		19. 21	·0998 ***					
		23. 55	·0976					
May 10		May 10		May 10				
0. 5	22. 24. 40	0. 30	·0983	0. 30	·01658	1. 40	65 ·0	68 ·0
17. 30	17. 30	0. 55	·0991	2. 9	·01425	3. 40	70 ·0	73 ·0
23. 25	23. 0	1. 35	·0987	2. 45	·01450	9. 40	68 ·0	72 ·5
		2. 34	·0984 ***	4. 50	·01385	22. 50	58 ·5	62 ·5
		7. 5	·1006	8. 30	·01480			
		7. 40	·1000	14. 56	·01922			
		9. 46	·1000	19. 0	·01804			
		10. 30	·1008	23. 30	·01712			
		18. 15	·1012					
		19. 15	·1019					
		23. 20	·1000					
May 11		May 11		May 11				
0. 0	22. 24. 10	0. 0	·0990	0. 0	·01682	9. 40	66 ·5	70 ·0
2. 0	27. 10	1. 45	·0998	4. 10	·01258	21. 45	59 ·0	61 ·0
6. 12	21. 10	2. 58	·0998	9. 35	·01410			
10. 55	18. 50	3. 13	·1006	14. 0	·01500			
11. 45:	13. 40	3. 55	·0997	18. 35	·01885			
14. 20:	17. 40	5. 45	·0990	23. 30	·01828			
15. 10:	15. 0	8. 45	·1004					
16. 20:	17. 30	13. 30	·1004					
20. 17	15. 50	14. 40:	·1022					
21. 50	12. 20	15. 12	·1010					
23. 55	21. 0	16. 55	·1018					
		20. 30	·1017					
		23. 30	·1001					
May 12		May 12		May 12				
1. 3	22. 24. 10	1. 0	·1008	1. 0	·01810	1. 40	62 ·0	65 ·0
6. 17	21. 10	2. 0	·1008	10. 35	·01670	3. 40	62 ·0	64 ·0
9. 30	21. 30	2. 30	·1019	14. 40	·01880	9. 40	62 ·5	67 ·0
10. 42:	17. 0	2. 54	·1008		***	21. 44	57 ·0	59 ·0
12. 30	20. 10	4. 20	·1026	23. 55	·01762			
15. 12	19. 40	4 ·52	·1014					
15. 42:	16. 40	5. 40	·1032					
17. 17:	23. 0	6. 30	·1022					
18. 17	19. 10	7. 5	·1032					
20. 10	17. 30	7. 33	·1022					
21. 0:	12. 30	10. 12	·1040					
23. 55	23. 40	11. 45	·1023					
		14. 54	·1020					
		15. 20	·1029					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		h m		h m	°	°
		May 12						
		16. 0	·1032					
		16.45	·1014					
		17. 10	·1012					
		19. 5	·1021					
		23.45	·0993					
May 13		May 13		May 13				
1.47	22. 26. 20	1. 5	·0996	0. 30	·01631	1. 40	60 ·0	63 ·0
9. 6	16. 50	5.45	·1006	5. 0	·01460	3. 40	62 ·0	65 ·0
9. 25:	9. 20	6. 12	·1016	9.47	·01655	9. 45	58 ·0	61 ·0
10. 17	17. 0	6.41	·1004	12. 28	·01810	21. 40	53 ·0	57 ·0
14. 43:	15. 0	8. 20	·1017	18. 0	·01650			
17. 30:	23. 20	8. 50	·1017	22. 3	·01593			
20. 0	20. 0	9. 14	·1004	23. 55	·01531			
21. 15:	13. 40	9. 35	·1020					
23. 55	21. 50	10. 19	·1008					
		13. 34	·1031					
		14. 8	·1017					
		16. 29	·1033					
		17. 10	·1013					
		18. 13	·1032					
		19. 32	·1032					
		23. 55	·1008					
May 14		May 14		May 14				
0. 42	22. 25. 20	1. 15	·1004	1. 0	·01448	1. 40	57 ·0	59 ·0
6. 22	19. 20	3. 30	·1003	4. 0	·01140	3. 40	59 ·0	61 ·0
10. 55	14. 40	3. 50	·0994	6. 50	·01243	9. 40	58 ·0	62 ·5
20. 5	16. 30	4. 15	·1010	8. 55	·01342	21. 40	52 ·0	
21. 10:	14. 40		***	10. 0	·01331			
23. 55	23. 0	6.45	·1022	14. 26	·01720			
			***	19. 0	·01620			
		10. 23:	·1024	23. 55	·01355			
		10. 40:	·1018					
		11. 2:	·1028					
		11. 26	·1020					
		15. 30	·1030					
		18. 30	·1034					
		19. 0	·1028					
		23. 55	·0991					
May 15		May 15		May 15				
0. 15	22. 23. 10	1. 0	·0993	1. 15	·01205	1. 40	60 ·0	62 ·0
3. 17:	27. 30	2. 0	·0994	1. 45	·01112	3. 40	63 ·0	65 ·0
6. 25	21. 0	2. 20	·1004	6. 0	·01250	9. 40	64 ·0	64 ·0
18. 25	16. 0	2. 46	·0998	9. 30	·01440	21. 40	52 ·0	53 ·0
20. 25	18. 0	3. 28	·1008	13. 30	·01819			
21. 35:	13. 20	4. 32	·0997	18. 0	·01670			
23. 50	20. 50	5. 30	·1013	21. 57	·01538			
		7. 30	·1012	23. 55	·01370			
		9. 30	·1011					
		15. 0	·1023					

Göttingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		h m		h m	°	°
		May 15						
		18. 0:	·1036					
		20. 0:	·1031					
		22. 35	·1016					
		23. 30	·1027					
May 16		May 16		May 16				
0. 10	22. 20. 50	0. 30	·1014	0. 5	·01342	1. 40	58 ·0	60 ·0
3. 30:	31. 20		***	2. 40	·01088	3. 40	63 ·0	66 ·0
11. 15:	11. 50	1. 24	·1036	4. 55	·01158	9. 40	62 ·0	66 ·0
12. 25:	12. 40		***	9. 0	·01414	21. 45	55 ·0	58 ·0
13. 50	5. 30	2. 41	·1031	14. 45	·01720			
15. 37	19. 0	3. 20	·0989	19. 57	·01580			
19. 0	21. 30	3. 30	·0996	22. 8	·01472			
19. 50	32. 30	4. 6:	·0986	23. 55	·01382			
20. 42	26. 40	5. 0	·1014					
21. 7	31. 20	6. 6	·1030					
21. 25	28. 30	7. 0	·1028					
23. 50	35. 0	8. 30	·1017					
		11. 0	·1032					
		11. 30	·1026					
		12. 32	·1034					
		13. 30	·1022					
		14. 1	·1005					
		15. 26	·1027					
		16. 19	·1012					
		18. 30	·1027					
		19. 21	·0998					
		20. 11	·1033					
			***					
		21. 43	·0993					
		22. 2	·1005					
		22. 55	·1000					
		23. 30	·1019					
May 17		May 17		May 17				
2. 0	22. 29. 0	1. 35	·1021	1. 5	·01285	1. 40	58 ·0	60 ·0
2. 55:	30. 30	1. 55	·1037	1. 50	·01280	3. 40	59 ·0	61 ·0
3. 42	27. 50	2. 22	·1036	3. 2	·01175	9. 40	60 ·0	63 ·0
8. 40	18. 20	3. 19	·0997	5. 12	·01109	23. 0	57 ·0	59 ·0
9. 13	7. 40		***	7. 25	·01150			
10. 37	19. 40	5. 21	·1026	13. 55	·01342			
23. 55	19. 0	6. 0	·1026	23. 11	·01022			
			***					
		7. 18	·1044					
		8. 47	·1046					
		9. 18	·1028					
		9. 26	·1050					
		12. 0	·1030					
		19. 0	·1044					
		21. 0	·1035					
		23. 55	·1011					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 18	° ′ ″	May 18		May 18		h m	°	°
h m		h m		h m				
0. 0	22. 23. 30	0. 0	·1006	0. 0	·01025	11. 5	60 ·0	63 ·0
2. 17:	29. 0	2. 12	·1011	5. 0	·01149	21. 45	54 ·0	56 ·0
5. 25	21. 30	2. 15	·1017	8. 25	·01210			
17. 25	19. 30	2. 40	·1011	10. 0	·01170			
18. 20	19. 30	3. 52	·1014	16. 3	·01678			
20. 35	13. 20	4. 2	·1021	21. 53	·01565			
23. 55	24. 30	6. 35	·1027	23. 30	·01520			
		9. 22	·1032					
		11. 8	·1026					
		17. 30	·1030					
		19. 15	·1042					
		21. 0	·1036					
		23. 20	·1014					
May 19		May 19		May 19				
0. 45	22. 26. 10	0. 55	·1000	1. 0	·01469	1. 40	55 ·0	58 ·0
6. 45	19. 0	1. 45	·1014	3. 18	·01331	3. 40	58 ·0	60 ·0
11. 45	21. 0	4. 14	·1022	6. 45	·01182	9. 40	57 ·0	61 ·0
12. 20:	23. 30	4. 46	·1032	8. 5	·01230	21. 40	53 ·0	53 ·0
12. 55	20. 20		(†)	10. 15	·01192			
23. 55	27. 30	9. 38	·1032	15. 55	·01649			
		18. 0	·1039	17. 55	·01612			
		22. 0	·1018	18. 3	·01572			
		23. 0	·1017	21. 51	·01478			
		23. 55	·1019	23. 55	·01370			
May 20		May 20		May 20				
0. 12	22. 28. 0	0. 30	·1026	0. 30	·01338	1. 40	54 ·0	56 ·0
7. 35	19. 10	2. 52	·1032	3. 45	·01045	3. 40	58 ·0	60 ·0
19. 35	16. 50	5. 0	·1025	4. 45	·01099	9. 58	58 ·0	63 ·5
23. 55	23. 30	5. 20	·1029	6. 30	·01000	21. 40	57 ·0	59 ·0
		5. 50	·1016	9. 12	·01120			
		6. 15	·1026	14. 0	·01190			
		7. 45	·1035	18. 45	·01470			
		8. 15	·1040	23. 55	·01238			
		23. 55	·1036					
May 21		May 21		May 21				
0. 14	22. 23. 40	1. 0	·1040	0. 30	·01319	1. 40	59 ·0	61 ·0
6. 48	20. 30	3. 0	·1040	2. 0	·01221	3. 40	60 ·0	61 ·0
18. 48	14. 0	4. 20	·1040	4. 25	·01142	9. 43	65 ·0	66 ·0
23. 50	23. 10	18. 30	·1048	8. 25	·01183	21. 45	59 ·0	61 ·0
		23. 55	·1022	11. 0	·01134			
				16. 0	·01382			
				18. 38	·01685			
				19. 50	·01670			
				21. 0	·01710			
				21. 25	·01609			
				23. 55	·01238			
May 22		May 22		May 22				
0. 0	22. 23. 30	1. 0	·1023 ***	0. 0	·01233	1. 40	65 ·0	67 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 22	° ′ ″	May 22		May 22		h m	°	°
h m		h m		h m				
6. 30	22. 19. 50	3. 47	·1023 ***	1. 0	·01120	3. 40	68 ·0	70 ·5
18. 30	15. 30			4. 40	·01261	9. 45	67 ·5	72 ·0
23. 55	22. 20	4. 6	·1017 ***	6. 30	·01210	21. 40	59 ·0	60 ·0
				9. 0	·01275			
		4. 31	·1027 ***	10. 45	·01265			
				15. 0	·01500			
		5. 30	·1020	17. 15	·01771			
		10. 0	·1030	21. 48	·01668			
		17. 0	·1040	23. 55	·01620			
		18. 50	·1041					
		19. 50	·1038					
		20. 30	·1023					
		23. 55	·1035					
May 23		May 23		May 23				
0. 5	22. 19. 10	0. 0	·1033	0. 33	·01605	1. 40	60 ·0	66 ·0
2. 50:	23. 10	0. 43	·1026	4. 0	·01669	3. 40	63 ·0	67 ·0
8. 55	15. 10	3. 0	·1044	9. 21	·01410	9. 40	63 ·0	65 ·8
10. 0	11. 40	4. 5:	·1023	10. 30	·01348	21. 40	55 ·0	59 ·0
11. 43	16. 0	4. 46	·1036	15. 15	·01670			
13. 0	11. 0	5. 12	·1026	17. 30	·01655			
14. 0	13. 30	7. 45:	·1040	18. 45	·01710			
19. 40	10. 30	8. 38	·1027	21. 40	·01683			
20. 20	7. 0	8. 49	·1034	23. 55	·01600			
23. 55	24. 40	9. 18	·1026					
		12. 5	·1041					
		14. 26	·1029					
		16. 14	·1041					
		20. 17	·1044					
		23. 58	·1009					
May 24		May 24		May 24				
0. 50	22. 27. 30	0. 52	·1010	1. 0	·01457	1. 40	60 ·0	64 ·4
8. 14	13. 20	1. 33:	·0998	2. 12	·01297	3. 40	65 ·0	68 ·0
8. 45	8. 0	2. 12	·1016	3. 25	·01100	9. 40	63 ·0	66 ·0
9. 50:	15. 20	3. 33	·1011		***	23. 10	58 ·5	62 ·0
11. 30:	10. 30	4. 2:	·1019	9. 16	·01309			
11. 55	15. 40	4. 38	·1010	13. 35	·01545			
12. 40:	11. 0	6. 10	·1026	13. 55	·01525			
13. 35	14. 10	6. 30	·1015	15. 15	·01699			
14. 15:	5. 30	7. 40	·1030	15. 30	·01678			
16. 17	12. 20	7. 55	·1047	23. 15	·01612			
23. 30	19. 40	8. 35	·0994					
		8. 58	·1023 ***					
		11. 56	·1028					
		12. 8:	·1020					
		12. 28	·1034					
		13. 20	·1023					
		13. 40	·1036					
		14. 13:	·1011					
		16. 22	·1029					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	May 24 h m		h m		h m	°	°
		23. 39	·0989					
May 25		May 25		May 25				
0. 0	22. 22. 30	0. 0	·0990	0. 0	·01560	9. 40	67 ·5	72. 0
4. 17:	26. 0	0. 42	·0982	2. 58	·01210	21. 40	58 ·0	62 ·0
4. 55	17. 20	1. 21	·0991		***			
5. 45	20. 40	1. 45	·0985	5. 12	·01330			
19. 0:	18. 10		***	8. 45	·01330			
10. 0:	13. 30	3. 52	·0992	10. 10	·01299			
10. 30	15. 10	4. 19	·1024	14. 0	·01530			
17. 50	10. 0	4. 45	·0989	16. 25	·01819			
23. 55	20. 0	5. 13	·1035	21. 55	·01720			
		6. 35	·1016	23. 30	·01700			
		6. 50	·1025					
		9. 0	·1009					
		9. 25	·1020					
		11. 25	·1003					
		12. 50	·1002					
		17. 20	·1022					
		22. 59	·0990					
		23. 50	·0994					
May 26		May 26		May 26				
0. 53	22. 22. 30	0. 54	·0995	1. 30	·01727	1. 40	60 ·0	63 ·0
6. 45	17. 0	2. 58	·1003	7. 0	·01610	3. 40	61 ·0	63 ·0
16. 40	18. 50	3. 41	·1017	9. 51	·01660	9. 40	59 ·5	63 ·0
17. 15:	22. 40	5. 8	·1011	11. 45	·01755	21. 45	57 ·0	57 ·0
18. 45	14. 20	5. 32	·1021	15. 35	·01770			
23. 40	23. 0	6. 42	·1013	18. 15	·01685			
		16. 25	·1037	20. 51	·01703			
		17. 10:	·1019	23. 45	·01647			
		17. 54	·1037					
		23. 42	·1004					
May 27		May 27		May 27				
0. 5	22. 24. 0	0. 0	·1007	0. 0	·01565	1. 40	59 ·0	61 ·0
1. 20	26. 20	7. 16	·1028	1. 59	·01375	3. 40	60 ·5	62 ·0
7. 30	14. 50	18. 45	·1028	6. 15	·01028	9. 40	60 ·0	64 ·0
16. 25	17. 0	23. 54	·0985	8. 45	·01102	21. 40	59 ·0	62 ·0
20. 0	10. 30			10. 30	·01058			
23. 55	22. 10			17. 0	·01280			
				21. 47	·01530			
				23. 30	·01450			
May 28		May 28		May 28				
0. 25	22. 23. 0	0. 27	·1013	0. 30	·01345	1. 40	63 ·0	65 ·0
8. 0	14. 20	0. 48:	·0992	2. 37	·01100	3. 40	64 ·5	67 ·0
11. 0	17. 10	1. 30:	·0985	4. 25	·01163	9. 40	64 ·5	66 ·5
20. 0	9. 40	7. 10	·1015	4. 27	·01193	21. 40	59 ·0	61 ·0
23. 55	24. 10	18. 20	·1025	9. 31	·01320			
		23. 56	·0982	14. 57	·01770			
				21. 50	·01670			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		May 28 h m		h m	°	°
				23. 55	·01550			
May 29		May 29		May 29				
0. 42	22. 25. 40	0. 40	·0990	0. 35	·01462	1. 40	63 ·0	67 ·0
19. 10	8. 50	5. 10	·1003	2. 33	·01165	3. 40	66 ·0	68 ·5
23. 58	23. 20		***	5. 30	·01293	9. 46	67 ·0	72 ·0
		7. 2	·1018	6. 45	·01285	21. 40	58 ·0	62 ·0
			***	9. 56	·01440			
		8. 39	·1018	12. 45	·01832			
		18. 0	·1033	18. 0	·01720			
		23. 53	·0997	22. 14	·01600			
				23. 55	·01432			
May 30		May 30		May 30				
0. 30	22. 21. 20	0. 32	·1000	0. 35	·01355	1. 40	64 ·0	66 ·0
1. 55	17. 0	3. 50	·1018	2. 15	·01149	3. 40	68 ·0	70 ·0
16. 30	16. 0	4. 55:	·1010	3. 40	·01210	9. 40	69 ·0	72 ·5
20. 33:	7. 0	5. 25	·1014	5. 30	·01259	21. 40	62 ·5	64 ·0
23. 55	22. 20	8. 12	·1018	6. 45	·01263			
		9. 58	·1009	7. 30	·01282			
		19. 5	·1023	8. 45	·01282			
		23. 56	·0988	15. 45	·01821			
				19. 0	·01740			
				23. 55	·01653			
May 31		May 31		May 31				
0. 57	22. 24. 10	1. 2	·0988	1. 0	·01555	1. 40	66 ·0	68 ·0
8. 0	13. 30		***	3. 55	·01162	3. 40	68 ·0	69 ·0
20. 0	3. 30	8. 36	·1019	6. 0	·01178	9. 40	64 ·0	67 ·0
20. 17	7. 20	18. 35	·1037	8. 0	·01260	22. 40	59 ·0	61 ·0
22. 45	15. 40	22. 50	·1002	9. 52	·01380			
				13. 10	·01776			
				18. 0	·01660			
				22. 50	·01540			
June 1		June 1		June 1				
0. 0	22. 23. 30	0. 0	·0978	0. 0	·01432	9. 35	69 ·0	72 ·0
1. 30	24. 40		***	2. 20	·01114	21. 40	61 ·0	63 ·5
7. 0	13. 40	9. 45	·1009	6. 0	·01242			
19. 0	9. 10	17. 25	·1019	9. 22	·01400			
20. 50	9. 0	23. 50	·1019	13. 0	·01623			
23. 55	24. 0			15. 15	·01812			
				19. 0	·01755			
				20. 10	·01742			
				22. 30	·01765			
June 2		June 2		June 2				
1. 10	22. 25. 20	1. 8	·0986	1. 25	·01541	1. 40	65 ·0	68 ·0
7. 12	14. 10	3. 55	·1002	3. 7	·01238	3. 40	67 ·0	68 ·5
19. 12	9. 20		***	3. 45	·01218	9. 40	68 ·0	73 ·0
23. 55	20. 20	8. 40	·1012	9. 31	·01418	21. 40	63 ·0	66 ·0
		8. 45	·0990	13. 0	·01603			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	June 2 h m		June 2 h m		h m	°	°
		18. 17	·1021	15. 33	·01832			
		20. 50	·1000	19. 0	·01783			
		23. 55	·1020	22. 8	·01718			
				23. 55	·01582			
June 3		June 3		June 3				
0. 35	22. 22. 10	0. 40	·0974	0. 40	·01473	1. 40	69 ·0	74 ·0
6. 40	15. 20	4. 18	·0996	2. 59	·01220	3. 40	71 ·0	75 ·0
18. 40	10. 50	4. 50	·1021	7. 0	·01410	9. 40	69 ·0	72 ·5
23. 55	18. 0	5. 55	·0990	9. 54	·01530	21. 40	54 ·0	56 ·0
		6. 34	·0981	13. 55	·01842			
		7. 58:	·0997	18. 0	·01690			
		9. 48	·0983	21. 52	·01610			
		10. 10	·0990	23. 45	·01595			
		10. 32	·0985					
		18. 51	·1010					
		23. 56	·0976					
June 4		June 4		June 4				
0. 42	22. 19. 30	0. 38	·0977	0. 45	·01621	1. 40	59 ·0	62 ·0
6. 7	16. 0	2. 20	·0990	2. 20	·01525	3. 40	61 ·0	64 ·0
18. 7	12. 30	2. 48	·1016	6. 45	·01268	9. 40	60 ·0	64 ·0
23. 55	17. 30	3. 9	·1004	8. 0	·01272	21. 40	54 ·0	56 ·0
		4 0	·0987	10. 30	·01195			
		4. 9	·1000	14. 25	·01617			
		4. 16	·0982	19. 0	·01550			
		4. 47	·1000	20. 49	·01530			
		6. 3	·0995	23. 55	·01330			
		6. 54	·1006					
		8. 28	·0998					
		9. 31	·0996					
		13. 50	·1008					
		14. 28	·1006					
		18. 55:	·1024					
		21. 15	·1011					
		23. 30	·0978					
June 5		June 5		June 5				
0. 40	22. 16. 0	0. 0	·0985	0. 21	·01310	1. 40	58 ·0	61 ·0
4. 45	21. 20	0. 28	·0993	2. 55	·00980	3. 40	59 ·0	62 ·0
8. 42	15. 20	0. 47	·0988	4. 25	·01032	9. 40	60 ·0	61 ·5
9. 12	5 30	1. 9	·0996	5. 34	·01020	21. 40	59 ·0	61 ·0
9. 33	16. 0	1. 30	·0993	5. 38	·01020			
10. 32	3. 30	2. 15	·0979	5. 42	·01031			
10. 46	7. 0	2. 52	·0995	8. 50	·01105			
11. 22	8. 20		***	9. 7:	·01130			
11. 30	10. 40	3. 38	·0988	10. 25:	·01025			
11. 48	8. 0	3. 51	·0996	12. 43	·01105			
12. 18	10. 30	4. 16	·0990	13. 0	·01045			
12. 32	8. 10	4. 29	·1011	14. 50	·01095			
11. 48:	22. 16. 0	4. 38	·1006	15. 36	·01185			
13. 44:	21. 52. 50	5. 14:	·1022	15. 52	·01175			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 5		June 5		June 5				
h m	° ′ ″	h m		h m		h m	°	°
14. 47	22. 8. 0	5. 40	·1008	16. 10	·01275			
15. 9	2. 30		***	17. 45	·01145			
15. 50	17. 50	6. 40	·1042	20. 44	·01470			
16. 3	10. 5	6. 49	·1030	23. 42	·01600			
16. 14	13. 0	7. 9	·1040					
17. 17	8. 40	7. 46	·1014					
17. 51	16. 50	8. 2:	·1025					
20. 15	10. 0		***					
23. 39	15. 40	8. 59	·1006					
		9. 18	·1041					
		10. 2	·0982					
		10. 20	·0991					
		11. 0	·0982					
		11. 27	·0996					
		11. 40	·0988					
		12. 13	·0988					
		12. 30	·0981					
		12. 47	·1006					
		12. 53	·0996					
		13. 45	·1010					
		14. 40	·0971					
		14. 58	·0979					
		15. 23	·0968					
		15. 47	·0981					
		16. 0:	·0968					
		16. 15	·0976					
			***					
		17. 0	·0983					
		17. 30	·0966					
		18. 20	·0982					
			***					
		22. 16	·0954					
			***					
		22. 21	·0945					
			***					
		22. 25	·0955					
			***					
		23. 30	·0950					
June 6		June 6		June 6				
0. 0	22. 16. 0	1. 0	·0962	0. 0	·01340	1. 40	58 ·0	60 ·0
3. 30	19. 30		***		***	3. 40	65 ·0	68 ·0
4. 20:	17. 0	2. 45	·0984	2. 42	·01160	9. 40	67 ·0	70 ·0
5. 10:	17. 40	3. 32	·0986		***	21. 40	60 ·0	63 ·0
5. 50:	13. 10	4. 0	·0973	9. 7	·01250			
6. 30	16. 20	4. 29	·0993	10. 57:	·01200			
9. 37	10. 30	5. 1	·1000	17. 12	·01775			
10. 30:	15. 0	5. 30	·0990	21. 56	·01775			
11. 15	11. 0	5. 53	·1011	23. 55	·01340			
11. 45	13. 30	6. 52	·0990					
12. 10	9. 50	7. 10	·1000					
15. 7	14. 40	7. 58	·0993					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 6		June 6						
h m	° ′ ″	h m		h m		h m	°	°
17. 17	22. 11. 0	8. 22	·1003			9. 40	63 ·0	66 ·0
23. 55	15. 10	8. 37	·0990			21. 40	57 ·0	60 ·0
		8. 52	·0996					
		9. 3	·0985					
		9. 26	·0981					
		9. 42	·0990					
		10. 8	·0982 ***					
		11. 4	·0989 ***					
		11. 45	·0988					
		12. 0	·0978					
		12. 20	·0984					
		14. 40	·0986					
		15. 10	·0982					
		16. 28	·0994					
		22. 5	·0967					
		23. 55	·0964					
June 7		June 7	(†)	June 7				
6. 37	22. 13. 40	6. 30	·0998	7. 10	·01240	1. 40	63 ·0	67 ·0
13. 53	15. 20	9. 22	·0992	9. 11:	·01255	3. 40	66 ·0	68 ·0
19. 10	7. 50	10. 2	·1002	10. 34	·01200	9. 40	69 ·0	70 ·0
23. 20	14. 30	11. 19	·0985	13. 44	·01355	23. 1	64 ·0	66 ·0
		13. 30	·0988	14. 8	·01364			
		13. 58	·0995	21. 18:	·01844			
		17. 30	·0984	23. 23	·01765			
		18. 0	·0988					
		23. 20	·0964					
June 8		June 8		June 8				
0. 0	22. 15. 30	0. 0	·0964	0. 0	·01728			
3. 0	18. 10	1. 15	·0957	3. 58	·01270			
6. 15	11. 50	1. 30	·0960	4. 56	·01256			
11. 0	16. 40	1. 53	·0953	5. 35	·01153			
23. 55	17. 30	2. 39	·0964	10. 30	·01118			
		3. 50	·0960 ***	16. 50	·01540			
		6. 41	·0988	23. 53	·01515			
		9. 35	·0976					
		10. 55	·0982					
		11. 52:	·0989					
		12. 28	·0976					
		13. 30	·0976					
		16. 30:	·0984					
		19. 30	·0978					
		22. 45	·0986					
		23. 30	·0984					
June 9		June 9		June 9				
0. 39	22. 18. 0	0. 35	·0986	0. 12	·01758	1. 40	60 ·0	62 ·0
7. 20	17. 0	1. 40	·0990	2. 37	·01800	3. 40	60 ·0	63 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 9		June 9		June 9				
h m	° ′ ″	h m		h m		h m	°	°
8. 0	22. 18. 0	1. 53	·0985	3. 34	·01765	9. 40	63 ·0	66 ·0
9. 27	0. 10	2. 12	·1000	8. 27	·01707	21. 40	57 ·0	60 ·0
9. 40	15. 0	3. 15	·0996	9. 47	·01560			
9. 28	3. 30	3. 42	·1011	13. 24	·01625			
11. 10	14. 10	4. 2	·1012	14. 3	·01600			
20. 12	9. 0	4. 33	·1002	23. 55	·01708			
23. 55	15. 40	5. 1	·1005					
		5. 12	·1000					
		6. 5	·1027 ***					
		6. 50	·1019					
		7. 10	·1038					
		7. 44	·1037					
		8. 5	·1019					
		8. 23	·1032					
		8. 28	·1018					
		8. 32	·1027					
		9. 2	·1004					
		9. 36	·1050					
		9. 53	·0984					
		10. 22	·1010					
		10. 50	·0992					
		11. 8	·1000					
		12. 45	·0992					
		13. 0	·0982					
		13. 23	·1011					
		13. 35	·0996					
		13. 42	·1002					
		14. 12	·1000					
		15. 35	·0994 (†)					
		22. 30	·0980					
		23. 45	·0993					
June 10		June 10		June 10				
0. 15	22. 16. 30	0. 15	·0995	0. 34	·01720	1. 40	59 ·0	60 ·0
5. 30	15. 0	0. 25	·0994	1. 12	·01740	3. 40	60 ·0	63 ·0
6. 50:	9. 20	0. 30	·0989	3. 32	·01648	9. 40	59 ·0	60 ·0
9. 0	13. 30	1. 5	·1002	4. 5	·01635	21. 40	56 ·0	58 ·0
19. 23	12. 20	1. 28	·0996	4. 38	·01675			
23. 55	16. 40	1. 40	·0998		(†)			
		1. 59	·0990	9. 22	·01700			
		2. 15	·1000	12. 5	·01725			
		2. 47	·0981 ***	14. 22	·01700			
		4. 13	·1000	20. 50	·01725			
		4. 24:	·0994	23. 54	·01632			
		4. 33	·1000					
		5. 4	·1003					
		5. 24	·0990					
		6. 20	·1023					
		6. 40	·1013					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	June 10 h m		h m		h m	°	°
		7. 3	·1019					
		7. 29	·1006					
		19. 0	·1004					
		19. 15	·1000					
		21. 58	·0980					
		23. 55	·0981					
June 11		June 11		June 11				
0. 15	22. 17. 10	1. 0	·0980	0. 18	·01620	1. 40	59 · 0	60 · 0
7. 0	14. 20		***	0. 52	·01600	3. 40	64 · 0	66 · 0
19. 0	8. 30	2. 53	·0987	2. 9	·01483	9. 40	65 · 0	67 · 0
23. 55	18. 40	4. 10	·0981	4. 17	·01140	21. 40	59 · 0	62 · 0
		6. 20	·1000	9. 5	·01225			
		6. 50	·0991	10. 44:	·01185			
		8. 35	·1000	17. 7	·01788			
		9. 30	·0996	23. 55	·01650			
		10. 0	·0998					
		10. 30	·0996					
		10. 55	·1000					
		18. 30	·1004					
		22. 0	·0993					
		23. 55	·0997					
June 12		June 12		June 12				
0. 50	22. 19. 30	1. 30	·1000	1. 3	·01622	1. 40	60 · 0	65 · 0
7. 0	12. 50	4. 30	·1016	7. 50:	·01200	3. 40	63 · 0	66 · 0
19. 0	7. 30	5. 0	·1010	9. 26	·01245	9. 40	64 · 0	68 · 0
23. 55	15. 10	5. 45	·1010	11. 29:	·01203	21. 40	61 · 0	64 · 0
		6. 0	·1014	20. 17:	·01475			
		6. 30	·1011	23. 55	·01305			
		7. 30	·1015					
		9. 38	·1014					
		16. 0	·1010					
		19. 15	·1000					
		23. 15	·0986					
June 13		June 13		June 13				
0. 28	22. 16. 30	0. 30	·1000	1. 35	·01180	1. 40	65 · 0	68 · 0
6. 45	13. 10	1. 33	·1006	3. 45	·01222	3. 40	68 · 0	70 · 0
12. 0	13. 40	2. 15	·0993	4. 47	·01292	9. 40	68 · 0	70 · 0
16. 15	13. 30	3. 45	·1000	6. 42	·01268	21. 40	63 · 0	66 · 0
17. 0:	9. 30	4. 24	·0994	9. 22	·01295			
20. 0	14. 50	6. 29	·0997	10. 30	·01272			
21. 37:	9. 50	9. 33	·1008	17. 20	·01840			
23. 55	18. 0	10. 33	·1003	23. 55	·01782			
		12. 20	·1017					
		13. 18	·1000					
		16. 18	·1018					
		17. 0	·1003					
		17. 30	·0992					
		19. 40	·0978					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	June 13 h m		h m		h m	°	°
		20. 10	·0982					
		21. 20	·0983					
		23. 20	·0957					
		23. 55	·0972					
June 14		June 14		June 14				
0. 26	22. 19. 20	0. 28	·0975	0. 34	·01188	1. 40	65 · 0	66 · 0
6. 30	14. 40	0. 59	·0985	7. 0	·01252	3. 40	67 · 0	68 · 5
18. 30	19. 40	1. 25	·0971	10. 3	·01242	9. 40	66 · 0	68 · 5
22. 58	16. 20	2. 35	·1006	16. 47	·01848	21. 40	60 · 5	63 · 5
		2. 45	·0993	19. 49	·01775			
		3. 8	·1016	20. 4	·01673			
		3. 22	·0998	22. 54	·01690			
		3. 35	·1011					
		4. 2	·0988					
		4. 51	·1002					
		5. 40	·0990					
		6. 58	·1006					
		13. 48	·1001					
		15. 18	·1013					
		16. 11	·1004					
		17. 1	·1009					
		17. 55	·0996					
		19. 12	·1011					
		20. 26	·0980					
		22. 50	·0991					
		23. 55	·0994					
June 15		June 15		June 15				
0. 0	22. 16. 0	0. 0	·0996	0. 0	·01626	9. 40	63 · 0	67 · 0
2. 0	12. 20	1. 0	·0992	6. 58	·01252	21. 40	63 · 0	63 · 5
4. 25:	17. 10	3. 12	·1000	9. 38	·01265			
5. 28	9. 30	3. 33:	·1007	10. 30	·01272			
6. 20	6. 40	3. 57	·1000	14. 47	·01498			
23. 55	19. 30		***	15. 6	·01482			
		5. 20	·1009	15. 53	·01505			
			***	15. 57	·01505			
		5. 40	·1006	21. 32	·01566			
		6. 8	·1014	23. 55	·01400			
		8. 10:	·1018					
		9. 38	·1012					
		16. 34	·1024					
		19. 33	·1000					
		23. 30	·0972					
		23. 47	·0974					
June 16		June 16		June 16				
1. 0	22. 21. 10	1. 0	·0978	1. 50	·01160	1. 40	63 · 0	67 · 0
7. 20	14. 30	2. 30	·0983	8. 5	·01382	3. 40	69 · 0	69 · 5
19. 20	9. 30		***	9. 30	·01380	9. 50	69 · 0	74 · 0
23. 55	18. 10	4. 0:	·1008	10. 50	·01343	21. 40	59 · 0	61 · 0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	June 16 h m		June 16 h m		h m	°	°
		5. 20:	·0993	14. 38	·01860			
		7. 2:	·1006	23. 55	·01740			
		7. 52	·1003					
		8. 10:	·1009					
		10. 7	·0993					
		12. 0:	·1000					
		12. 30	·0995					
		13. 10	·1000					
		14. 0	·1009					
		14. 50	·1004					
		17. 0	·1010					
		18. 30	·1007					
		19. 0	·1000					
		19. 30	·0987					
		22. 30	·0970					
		23. 55	·0972					
June 17		June 17		June 17				
0. 0	22. 18. 40	0. 10	·0971	0. 30	·01740	1. 40	63 ·0	66 ·0
7. 20	13. 40	2. 48	·0994	6. 22	·01230	3. 40	65 ·0	67 ·0
13. 0	14. 20	2. 57	·0989	9. 28	·01270	9. 40	65 ·0	68 ·0
13. 27:	11. 20	4. 23	·1000	11. 11	·01230	21. 40	58 ·0	61 ·0
14. 0:	11. 50	5. 30	·0996	16. 42	·01800			
15. 30:	8. 20	7. 15	·1004	16. 50	·01730			
16. 15:	10. 30	8. 35	·1004	19. 13	·01740			
17. 53:	8. 0	10. 0	·0994 ***	22. 32	·01765			
23. 55	17. 23			23. 55	·01650			
		12. 20	·0993 ***					
		13. 40	·1008 ***					
		15. 30	·1003					
		16. 45	·1008					
		19. 0	·1005					
		19. 5	·1000					
		19. 30	·0993					
		21. 41	·0974					
		22. 9	·0962					
		23. 55	·0975					
June 18		June 18		June 18				
0. 17	22. 17. 50	0. 30	·0980	0. 30	·01580	1. 40	64 ·0	67 ·0
2. 42:	21. 10	2. 21	·0987	2. 43	·01160	3. 40	65 ·0	68 ·0
11. 30	15. 0	2. 53	·0990	7. 30	·01260	9. 40	65 ·0	67 ·0
12. 12:	15. 30	4. 24	·0991	9. 33	·01320	21. 46	65 ·0	68 ·0
20. 0	10. 20	6. 10	·1004	11. 0	·01250			
23. 55	20. 20	8. 0	·1008	12. 0	·01250			
		11. 45	·1004	15. 0	·01335			
		12. 5	·1010 ***	21. 30:	·01700			
				23. 0	·01640			
		15. 30	·1002	23. 55	·01490			
		17. 0	·1006					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	June 18 h m		h m		h m	°	°
		18. 45	·1006					
		22. 10	·0971					
		23. 30	0968					
June 19		June 19		June 19				
0. 32	22. 21. 10	0. 30	·0974 ***	0. 30	·01380	1. 40	69 ·0	73 ·0
7. 15	15. 30			0. 55	·01300	3. 40	74 ·0	77 ·0
19. 15	9. 30	6. 55	·0997	3. 30	·01420	9. 40	73 ·0	77 ·0
23. 55	19. 30	7. 30	0986	7. 30	·01430	21. 40	67 ·0	70 ·0
		18. 0	·1003	11. 30	·01550			
		19. 20	·1000	14. 41	·01951			
		22. 0	·0981	20. 30	·01880			
		23. 55	·0975	21. 38	·01890			
				23. 55	·01775			
June 20		June 20		June 20				
0. 30	22. 20. 30	0. 30	·0974	0. 35	·01685	1. 40	70 ·0	74 ·0
11. 0	15. 30	12. 25	·0994	2. 28	·01359	3. 40	74 ·0	77 ·0
14. 30:	9. 0	12. 35	·1005	3. 30	·01450	9. 40	75 ·0	78 ·0
16. 7:	13. 30	13. 0	·1000	5. 55	·01462	21. 40	67 ·0	70 ·0
18. 20:	8. 0	15. 52	·1000	7. 0	·01408			
23. 55	20. 30	16. 50	·1010	9. 0	·01450			
		17. 15:	·1012	14. 15	·01920			
		18. 20	·1008	14. 18	·01900			
		19. 10	·0990	17. 0	·01828			
		20. 45	·0987	20. 48	·01825			
		23. 0	·0961	22. 28	·01700			
		23. 55	·0961	23. 55	·01460			
June 21		June 21		June 21				
0. 0	22. 21. 30	0. 23	·0963	0. 45	·01325	1. 40	75 ·5	77 ·7
6. 40	14. 30	0. 47	·0954	2. 55	·01415	3. 40	81 ·0	83 ·0
18. 40	8. 40	1. 11	·0962	6. 0:	·01325	9. 40	77 ·0	79 ·9
22. 15	10. 40	2. 0	·0945	13. 5	·01875	23. 3	67 ·0	70 ·0
		2. 56	·0957 ***	23. 17	·01675			
		5. 25	·0966					
		6. 25	·0959					
		7. 23	·0976					
		9. 56	·0973					
		19. 28:	0997 ***					
		23. 4	·0977					
June 22		June 22		June 22				
0. 0	22. 12. 30	0. 15	·0973	0. 5	·01660	9. 40	65 ·0	67 ·0
5. 15	19. 0	1. 35	·0980	5. 6	·01757	21. 40	58 ·0	60 ·0
6. 0	15. 0	1. 48	·0976	8. 13	·01685			
11. 20	15. 0	2. 1	·0982	12. 6	·01710			
11. 50:	13. 10	2. 25	·0971	15. 17	·01620			
12. 17:	14. 40	2. 50	·0984	15. 57	·01438			
12. 47	11. 40	3. 12	·0968 ***	23. 55	·01433			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 22		June 22						
h m	° ′ ″	h m		h m		h m	°	°
23. 55	22. 15 0	5. 15	·1008					
		5. 39	·0976					
		7. 25:	·1000					
			***					
		9. 50	·0991					
		11. 19:	·1006					
		11. 25	·0990					
		11. 50	·0996					
		12. 10	·1013					
		13. 10	·0985					
		18. 0:	·1000					
		20. 0	·0982					
		23. 45	·0967					
June 23		June 23		June 23				
0. 20	22. 16. 30	0. 30	·0970	1. 10	·01430	1. 40	60 ·0	63 ·0
7. 58	14. 20	1. 0	·0970	4. 30	·00980	3. 40	63 ·0	64 ·0
19. 58	8. 10	3. 15	·0961	9. 20	·01040	9. 59	64 ·0	66 ·0
23. 55	17. 20	5. 58	·0986	10. 45	·01025	21. 40	55 ·0	58 ·0
		18. 30:	·0996	15. 54	·01060			
		20. 0	·0994	20. 57	·01350			
		22. 30	·0978	23 ·55	·01380			
		23. 55	·0982					
June 24		June 24		June 24				
0. 35	22. 18. 0	1. 0	·0981	0. 42	·01408	1. 40	61 ·0	63 ·0
17. 0	16. 20	3. 15	·0971	2. 38	·01105	3. 40	65 ·0	68 ·0
19. 0	12. 0	7. 25	·0977	9. 42	·01162	9. 40	68 ·0	72 ·0
23. 55	19. 10	9. 49	·0974	11. 6	·01105	21. 40	62 ·0	64 ·0
		19. 30	·0990	16. 14	·01692			
		22. 30	·0972	21. 0	·01665			
		23. 35	·0973	23. 50	·01418			
June 25		June 25		June 25				
0. 15	22. 19. 20	1. 0	·0969	0. 17	·01383	1. 40	69 ·0	70 ·0
15. 45	14. 10	3. 0	·0967	1. 30	·01140	3. 40	72 ·0	74 ·0
20. 30:	7. 40	5. 0	·0959	9. 31	·01260	9. 40	73 ·0	75 ·0
23. 45	17. 50	6. 15	·0964	11. 0	·01240	21. 40	64 ·0	66 ·0
		7. 0	·0970	15. 13	·01775			
		12. 15	·0975	21. 51	·01702			
		18. 30	·0990	23. 58	·01525			
		20. 45	·0975					
		23. 55	·0958					
June 26		June 26		June 26				
0. 0	22. 18. 30	0. 30	·0962	0. 3	·01505	1. 40	74 ·0	76 ·0
10. 30	15. 20	0. 57	·0957	1. 42	·01190	3. 40	78 ·0	80 ·0
11. 40:	8. 20		***	3. 38	·01295	9. 40	77 ·0	81 ·0
12. 40	12. 30	3. 28	·0956	6. 42	·01265	21. 45	66 ·0	68 ·0
15. 0	14. 10	5. 15	·0964	10. 53	·01370			
17. 12:	8. 0	6 30	·0962	13. 4	·01805			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 26		June 26		June 26				
h m	° ′ ″	h m		h m		h m	°	°
18. 46:	22. 11. 0	6. 42	·0953	16. 5	·01682			
20. 4:	8. 30	7. 22	·0970	21. 33	·01662			
23. 55	20. 20	10. 11	·0964	23. 55	·01265			
		10. 16	·0977					
		10. 42	·0966					
		11. 8	·0988					
		12. 13	·0966					
			***					
		15. 57	·0986					
		16. 41	·0981					
		18. 50	·0988					
		19. 15	·0988					
		23. 50	·0931					
June 27		June 27		June 27				
0. 0	22. 20. 0	0. 42	·0952	0. 13	·01168	1. 40	75 ·0	78 ·0
8. 2	13. 30	1. 18	·0953	4. 3	·01380	3. 40	80 ·0	83 ·0
10. 45	12. 20	1. 30	·0960	6. 53:	·01210	9. 40	78 ·0	80 ·0
12. 50	12. 40	1. 56	·0953	10. 30	·01322	21. 40	70 ·0	72 ·0
13. 30:	6. 10	2. 32	·0958	12. 10	·01264			
15. 45:	13. 30	2. 58:	·0949	17. 10	·01463			
16. 30:	6. 50	3. 32:	·0963	21. 2	·01450			
23. 55	20. 30	4. 39:	·0939	23. 5:	·01358			
		5. 3:	·0950					
		5. 25:	·0941					
		6. 28:	·0962					
		7. 55:	·0947					
		8. 53:	·0962					
			***					
		13. 33	·0964					
		13. 58	·0971					
		14. 48:	·0962					
		15. 28:	·0976					
		16. 20:	·0961					
		17. 3	·0979					
		22. 27	·0934					
		23. 6	·0926					
		23. 55	·0932					
June 28		June 28		June 28				
0. 53	22. 20. 30	1. 0	·0941	1. 47	·00933	1. 40	76 ·0	77 ·0
7. 25	13. 10		***	2. 49	·00982	3. 40	80 ·0	80 ·0
12. 25	18. 30	3. 3	·0949	7. 54	·00995	9. 40	75 ·0	77 ·0
13. 50:	11. 20	5. 22	·0917	10. 22:	·01170	22. 43	69 ·0	68 ·0
14. 44	13. 40	6. 0	·0917	12. 15	·01550			
18. 30	8. 10	9 38	·0946	19. 50	·01390			
22. 58	17. 50	12. 14	·0954	23. 2	·01085			
		19. 15	·0941					
		22. 13	·0954					
June 29		June 29		June 29				
0. 0	22. 21. 0	0. 0	·0926	0. 22	·00812	10. 10	73 ·0	74 ·0
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 29		June 29		June 29				
h m	° ′ ″	h m		h m		h m	°	°
1. 30:	22. 23. 0	3. 28	·0960	3. 22	·00995			
6. 40	13. 30		***	6. 0	·00965	21. 40	66 ·0	66 ·0
18. 7	10. 20	4. 30:	·0931	8. 52	·00920			
			***	13. 10	·01522			
		5. 15	·0935	19. 52	·01405			
			***	23. 54	·01030			
		6. 30	·0941					
			***					
		7. 14	·0928					
			***					
		8. 30	·0937					
		9. 0	·0933					
		14. 30	·0959					
		19. 30	·0946					
		21. 53	·0955					
June 30		June 30		June 30				
0. 4	22. 22. 0	0. 0	·0930	0. 54	·00805	1. 40	73 ·0	73 ·0
6. 10	14. 20	3. 21	·0932	2. 3	·00885	3. 40	74 ·0	76 ·0
18. 10	9. 10	4. 20	·0922	5. 25	·00895	9. 40	74 ·0	74 ·5
23. 55	15. 40		***	9. 46	·00873	21. 40	66 ·0	67 ·0
		7. 35	·0943	14. 25	·01512			
		9. 56	·0947	20. 38	·01442			
		13. 0	·0945	23. 52	·01228			
		19. 20	·0932					
		22. 20	·0934					
July 1		July 1		July 1				
0. 47	22. 15. 40	0. 39	·1012	0. 47	·01182	1. 40	69 ·0	72 ·0
7. 3	12. 10	8. 24	·1015	3. 35	·00993	3. 40	71 ·0	72 ·5
19. 0	6. 10	18. 40	·1040	6. 45:	·00995	9. 40	74 ·0	76 ·5
23. 55	15. 30	23. 50	·0998	10. 37	·00960	21. 40	69 ·0	70 ·0
				15. 52	·01575			
				21. 49	·01525			
				23. 52	·01342			
July 2		July 2		July 2				
0. 50	22. 18. 0	0. 48	·0993	0. 53	·01120	1. 40	74 ·0	76 ·5
6. 23	13. 0	1. 48	·0982	1. 58	·00935	3. 40	77 ·5	78 ·0
18. 20	8. 40	5. 2	·1012	5. 7	·01065	9. 46	76 ·0	77 ·0
23. 55	15. 30	6. 15	·1014	9. 14:	·01042	21. 40	62 ·0	66 ·0
		7. 55	·1029	12. 56	·01578			
		8. 40:	·1016	23. 55	·01340			
		8. 59:	·1024					
		9. 15:	·1019					
		10. 18	·1028					
		21. 4	·1052					
		22. 57	·1039					
		23. 5	·1044					
		23. 31	·1030					
		23. 48	·1028					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 3		July 3		July 3				
h m	° ′ ″	h m		h m		h m	°	°
0. 10	22. 16. 40	0. 11	·1036	0. 15	·01045	1. 46	62 ·0	66 ·0
2. 17	22. 30		***		***	3. 40	63 ·0	66 ·0
8. 0	22. 14. 20	0. 30	·1045	2. 0	·01340	9. 58	67 ·0	67 ·5
9. 35	21. 52. 30	0. 57	·1020		***	21. 40	59 ·0	62 ·0
10. 7	22. 7. 30		***	7. 11	·00812			
10. 30	5. 0	1. 33	·1052	8. 41	·00755			
10. 50:	22. 7. 10	2. 36	·1004	9. 3	·00782			
12. 10	21. 58. 20	3. 3	·1030	9. 15	·00755			
13. 17	22. 12. 30	3. 10	·1022	9. 47	·00815			
15. 50	9. 50	3. 15	·1034	10. 31	·00770			
23. 55	19. 30	3. 25	·1022	16. 13	·01385			
		3. 36	·1050	17. 30	·01350			
		4. 20	·1006	19. 0	·01370			
			***	22. 0	·01330			
		6. 15	·1035	23. 55	·01355			
		7. 38	·1043					
		8. 20:	·1057					
			***					
		9. 25	·1014					
		9. 45	·1054					
		10. 33	·1025					
		10. 50	·1031					
		11. 10:	·1021					
		11. 40:	·1036					
		12. 30	·1012					
		13. 37	·1033					
		21. 47	·1014					
		22. 10	·1005					
		22. 33:	·1010					
		22. 48	·1008					
		23. 2	·1014					
		23. 55	·1005					
July 4		July 4		July 4				
0. 0	22. 19. 40	0. 0	·1005	0. 3	·01355	1. 40	62 ·0	63 ·5
6. 50	17. 30	0. 21	·1014	5. 51	·00762	3. 40	64 ·0	67 ·0
7. 28:	14. 20	0. 43	·1004	7. 32	·01815	9. 40	67 ·0	69 ·0
8. 0	17. 40	1. 28	·1017	11. 0	·00735	21. 45	60 ·0	59 ·0
9. 23	18. 20	2. 45	·1018	16. 5	·01375			
	***	3. 20	·1004	21. 47	·01340			
12. 25	10. 50	3. 29	·1018	23. 28	·01245			
12. 45	8. 50	3. 54:	·1006					
13. 45	14. 10	4. 32	·1028					
23. 25	20. 0	5. 16:	·1020					
		6. 29:	·1042					
		7. 12	·1028					
		7. 30:	·1040					
		9. 9	·1023					
			***					
		13. 5	·1016					
		19. 1	·1029					
		23. 26	·1011					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 5		July 5		July 5				
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 20. 40	0. 0	·1010	0. 0	·01188	1. 40	63 ·0	64 ·0
2. 33	24. 30	2. 6	·1006	2. 58	·00730	3. 40	65 ·0	67 ·0
10. 40	15. 0		***	5. 10	·00838	9. 40	69 ·0	70 ·0
10. 56	17. 30	14. 55	·1017	9. 33	·00885	22. 40	63 ·0	64 ·5
11. 20:	11. 10	15. 32:	·1032	11. 0	·00820			
11. 40	15. 0	16. 15	·1024	13. 0	·00860			
13. 2:	9. 30	23. 3	·1014	18. 0	·01460			
15. 15:	16. 30			20. 0	·01435			
15. 52	13. 10			23. 2	·01455			
23. 0	17. 30							
July 6		July 6		July 6				
0. 0	22. 19. 30	0. 0	·1015	0. 0	·01410	11. 0	68 ·0	68 ·0
	***	3. 28:	·1022	2. 30	·01255	21. 44	64 ·0	67 ·0
3. 0	24. 0	4. 32	·1010	5. 17	·01005			
	***	11. 24	·1025	8. 28	·00810			
10. 56	16. 0	11. 49	·1029	12. 12	·00830			
11. 23:	17. 20	13. 1	·1020	15. 10	·00940			
12. 0	14. 30	23. 55	·1016	19. 25	·01310			
19. 0	14. 20			22. 42	·01475			
20. 20:	10. 0			23. 55	·01345			
	***							
23. 55	21. 20							
July 7		July 7		July 7				
1. 7	22. 23. 40	1. 13	·1008	1. 40	·01345	1. 40	67 ·0	69 ·0
6. 37	17. 50	1. 54	·1005	4. 39	·00890	3. 40	70 ·0	73 ·0
18. 37	10. 20	6. 58	·1030	11. 25	·00945	9. 40	69 ·0	71 ·0
23. 55	22. 40	8. 57	·1026	16. 21	·01510	21. 40	63 ·5	66 ·0
		9. 35	·1032	23. 55	·01850			
		10. 5	·1024					
			***					
		10. 49	·1030					
			***					
		11. 54	·1024					
			***					
		20. 49	·1030					
		23. 55	·1012					
July 8		July 8		July 8				
0. 25	22. 23. 30	0. 29	·1012	0. 30	·01253	1. 40	65. 0	68 ·0
8. 4	17. 50	1. 45	·1022	5. 0	·01078	3. 40	67. 0	69 ·5
20. 0	12. 0		(†)	7. 30	·00883	9. 40	67. 0	68 ·0
23. 55	20. 10	2. 3	·1013	10. 0	·00919	21. 45	59 ·0	61 ·0
			***	14. 18	·01437			
		3. 54	·1029	21. 38	·01350			
			***	22. 15	·01180			
		5. 58	·1026	23. 0	·01120			
		6. 46	·1045	23. 55	·01100			
		7. 26	·1027					
		18. 33	·1046					
		23. 55	·1033					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 9		July 9		July 9				
h m	° ′ ″	h m		h m		h m	°	°
1. 30	22. 22. 20	0. 30	·1037	0. 30	·01080	1. 40	60 ·0	63 ·0
9. 11	15. 10	3. 30	·1040	7. 0	·00730	3. 40	64 ·0	67 ·0
10. 4:	12. 40	5. 30	·1021	8. 30	·00760	9. 40	63 ·0	66 ·0
11. 0	14. 50	8. 0	·1039	9. 16	·00730	21. 40	58 ·0	62 ·0
15. 45	15. 50	16. 2	·1040	16. 47	·01355			
16. 35:	17. 30	17. 30	·1053	21. 50	·01304			
17. 45	9. 20	22. 30	·1045	23. 55	·01150			
23. 55	27. 30	23. 15	·1047					
		23. 54	·1039					
July 10		July 10		July 10				
0. 17	22. 27. 30	0. 30	·1037	0. 30	·01115	1. 40	60 ·0	63 ·0
7. 40	16. 30	1. 45	·1028	4. 22	·00660	3. 40	64 ·0	65 ·0
8. 20:	15. 20	2. 10	·1034	7. 30	·00700	9. 40	62 ·5	63 ·0
8. 48	17. 0	2. 31	·1030	13. 52	·01330	21. 40	54 ·0	56 ·0
9. 35	14. 0	2. 53	·1035	19. 30	·01280			
16. 45	15. 30	5. 10	·1032	21. 50	·01165			
17. 27	13. 0		***	23. 55	·00965			
18. 35:	17. 50	6. 20	·1046					
19. 45	13. 30	6. 56	·1038					
23 ·55	21. 10		***					
		8. 49	·1056					
		9. 25	·1039					
		17. 15	·1050					
		18. 0	·1042					
		19. 3	·1049					
			***					
		23. 40	·1027					
July 11		July 11		July 11				
0. 13	22. 21. 30	0. 40	·1027	0. 30	·00890	1. 40	59 ·0	60 ·0
6. 32	16. 50		***	2. 2	·00690	3. 40	64 ·0	64 ·0
18. 32	10. 40	4. 21	·1027	5. 3	·00810	9. 40	66 ·0	64 ·5
21. 20	11. 40	4. 33	·1022	9. 31	·00833	21. 40	64 ·0	67 ·0
23. 55	23. 50	5. 5	·1036	12. 30	·00770			
		5. 39	·1029	20. 30	·01005			
		8. 38	·1037	23. 30	·00830			
		9. 31	·1030					
		11. 8	·1043					
		18. 15	·1039					
		19. 58	·1022					
		21. 39	·1023					
		23. 40	·1010					
July 12		July 12		July 12				
0. 42	22. 23. 20	1. 35	·1023	1. 0	·00856	1. 40	68 ·0	69 ·0
7. 5	14. 40	4. 40	·1008	3. 26	·00960	3. 40	72 ·0	72 ·0
19. 5	14. 50	5. 15	·1018	7. 0	·01005	9. 40	73 ·0	75 ·0
23. 18	22. 20	10. 11	·1020	10. 0	·00994	2. 39	65 ·0	67 ·0
		16. 40	·1040	11. 30	·10500			
		19. 10	·1044	14. 48	·01580			
		19. 24	·1039	23. 15	·01430			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	July 12 h m		h m		h m	°	°
		19. 28	·1044					
		23. 20	·1011					
July 13		July 13		July 13				
0. 0	22. 24. 10	0. 0	·1017	0. 30	·01410	11. 3	69 ·0	70 ·0
2. 15:	25. 50	0. 15	·1005	2. 57	·00900	21. 40	64 ·0	66 ·0
6. 7	17. 50	0. 35	·1011	5. 38	·00963			
6. 50:	14. 10	1. 30	·1018	5. 41	·01000			
7. 20	15. 10	2. 25	·1006	5. 45	·00970			
15. 20	15. 10	3. 0	·1020	7. 7	·00988			
16. 0:	18. 30	5. 34	·1025	9. 57	·00965			
18. 0	9. 20	5. 36	·1020	14. 36	·01540			
23. 55	22. 30	5. 40	·1060	17. 0	·01460			
		5. 46	·1044	21. 48	·01480			
		5. 50	·1049 ***	23. 55	·01480			
		6. 37:	·1028					
		7. 14	·1048					
		7. 50	·1026 ***					
		9. 10	·1038					
		9. 38	·1030 ***					
		12. 30	·1030					
		16. 40:	·1056					
		18. 25	·1046					
		19. 10	·1050					
		20. 15	·1044					
		23. 17	·1004					
		23. 55	·1007					
July 14		July 14		July 14				
0. 43	22. 24. 30	1. 0	·1003	1. 0	·01335	1. 40	68 ·0	70 ·0
4. 13	23. 0	2. 0	·1014	4. 5	·00990	3. 40	70 ·0	73 ·0
4. 37	18. 30	2. 25	·1008		***	9. 40	68 ·5	71 ·0
5. 6	22. 0	3. 0	·1024	5. 40	·01005	21. 40	63 ·5	64 ·0
5. 33	18. 20	3. 40	·1024		***			
5. 48	19. 5	4. 10	·1039 ***	7. 4	·01010			
6 ·50	15. 0			8. 41	·00955			
8. 0	15. 0	6. 40	·1034	9. 18	00980			
8. 22	10. 55	6. 50	·1018	10. 20	·00980			
8. 40	17. 20	6. 58	·1038	11. 22	·01028			
9. 10	7. 30	7. 1	·1030		***			
10. 0	11. 20	7. 6	·1046 ***	15. 22	·01440			
11. 23	2. 0			19. 5	·01390			
12. 0:	7. 20	7. 45	·1028	19. 38	·01370			
12. 40	4. 20	8. 20	·1046	21. 52	·01455			
13. 5	22. 21. 20	8. 40	·1022 ***	23. 0	·01450			
14. 12:	21. 54. 40			23. 55	·01410			
14. 21	58. 0	11. 0	·1002					
14. 33	54. 10	11. 35	·1012					
14. 57	59. 20	11. 55	·1004					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 14		July 14						
h m	° ′ ″	h m		h m		h m	°	°
15. 6	21. 57. 0	12. 25	·1012					
15. 20	22. 2. 45	13. 15	·0984 ***					
15. 26	21. 58. 50							
16. 0	22. 9. 20	15. 11	·1064					
16. 30	7. 30	15. 48	·1036 ***					
16. 58:	13. 2							
17. 12	9. 10	17. 10	·1055					
18. 3	11. 0	18. 0	·1040					
19. 0	22. 0	18. 48	·1014					
20. 8:	16. 40	19 10	·1038					
20 27	18. 0	19. 55	·1005					
20. 50	14. 40	21. 17	·1015					
23. 55	21. 50	23. 30	·1004					
July 15		July 15		July 15				
0. 15	22. 23. 10	0. 17	·1008	0. 30	·01345	1. 40	65 ·0	67 ·0
9. 18	13. 40	3. 5	·1033	3. 42	·00880	3. 40	69 ·0	72 ·0
11. 0	10. 10	7. 27	·1017	7. 0	·00950	9. 40	68 ·5	71 ·5
12. 0:	13. 40	9. 19	·1029	10. 10	·00935	21. 40	62 ·5	62 ·0
15. 0	12. 30	11. 5	·1019	15. 23	·01490			
15. 55	17. 30	15. 1	·1029	16. 25	·01400			
16. 37:	10. 0	16. 50	·1049	18. 10	·01370			
17. 25:	12. 0	23. 55	·1015	23. 30	·01370			
19. 42	9. 40							
23. 55	20. 40							
July 16		July 16		July 16				
0. 16	22. 21. 40	0. 17	·0992 ***	1. 0	·01320	1. 40	64 ·0	64 ·0
2. 30	23. 20			6. 40	·00820	3. 40	65 ·0	68 ·0
11. 0	14. 30	11. 22	·1018	9. 0	·00843	9. 40		
12. 13	12. 40	12. 22	·1013	11. 30	·00825	21. 40	58 ·0	59. 0
14. 10	14. 30	14. 45	·1022 ***	17. 23	·01430 ***			
14. 50	10. 20 ***	21. 4	·1003	23. 15	·01390			
19. 47	6. 0	22. 12	·1014	23. 55	·01350			
20. 5	12. 0	23. 33	·1009					
20. 35	5. 30	23. 47	·0995					
20. 50	9. 40	23. 58	·1013					
21. 7	5. 40							
21. 12	12. 50							
23. 42	21. 30							
23. 57	18. 0							
July 17		July 17		July 17				
0. 25	22. 21. 40	0. 20	·1005	0. 30	·01290	1. 40	64 ·0	65 ·0
1. 58:	24. 20	0. 45	·0998	4. 0	·00913	3. 40	65 ·0	66 ·0
4. 10:	20. 30	1. 25	·1006	4. 30	·00878	9. 40	61 ·0	61 ·8
5. 5	22. 40	2. 10	·1002	4. 45	·00835	21. 40	56 ·0	58 ·0
5. 30:	20. 20	2. 48	·1012	5. 0	·00825			
10. 13	18. 0	3. 0	·1009	5. 28	·00790			
11. 0:	8. 50	3. 14	·0992	6. 50	·00800			
11. 25:	12. 50	3. 40	·0992	9. 22	·00920			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 17		July 17		July 17				
h m	° ′ ″	h m		h m		h m	°	°
11. 40	22. 11. 10	3. 55	·1009	11. 11	·01050			
12. 7	17. 0	4. 11	·1000	14. 25	·01310			
12. 30:	6. 0	4. 33	·1029	16. 0	·01275			
13. 2	16. 50	4. 46	·1003	16. 45	·01210			
13. 35:	10. 50	5. 10	·1029	18. 0	·01255			
13. 57	13. 30	5. 30	·1001	19. 30	·01283			
14. 25:	10. 0	5. 41	·1014	22. 30	·01250			
15. 7	21. 30	5. 49	·1008	23. 55	·01260			
15. 25	19. 0	6. 6	·1022					
16. 22:	28. 30	6. 30	·1014					
17. 25	15. 20	6. 35	·1020					
20. 0	11. 30	6. 54	·1013					
	***	8. 10	·1026					
23. 58	21. 30	8. 36	·1022					
		9. 0	·1030					
		9. 14	·1016					
			***					
		10. 28:	·1030					
		11. 3	·1020					
		11. 14	·1029					
		12. 3	·1023					
		12. 12	·1016					
		12. 38	·1043					
			***					
		14. 58	·1009					
		15. 24	·1013					
		16. 27	·1003					
		17. 10	·1026					
		18. 53	·1006					
		21. 50	·1002					
		22. 40	·0965					
		23. 30	·1040					
		23. 48	·0974					
July 18		July 18		July 18				
0. 12	22. 24. 20	0. 6	·0961	0. 30	·01100	1. 40	61 ·0	61 ·0
0. 29	23. 0	0. 13	·0971	2. 25	·00735	3. 40	65 ·0	67 ·0
0. 43	25. 0	0. 32	·0959	5. 30	·00850	9. 40	67 ·0	68 ·5
1. 18:	22. 20	0. 48	·0970	9. 25	·00863	21. 40	60 ·0	62 ·0
2. 52	26. 0	2. 55	·1000	10. 40	·00835			
9. 5	16. 0	3. 5	·0992	16. 15	·01390			
10. 37:	13. 40	3. 45	·1010	17. 15	·01345			
11. 12	16. 30	4. 2	·0998	18. 30	·01357			
11. 45:	14. 30		***	20. 30	·01350			
12. 15:	18. 40	9. 8	·1016	22. 0	·01375			
13. 50	11. 30	9. 45	·1008	23. 55	·01320			
13. 53:	14. 30	10. 10	·1014					
15. 10:	12. 0	10. 37	·1016					
16. 35	20. 0	11. 5	·1019					
19. 58	11. 40	11. 35	·1009					
20. 20	17. 20	12. 10	·1017					
21. 0	12. 50	13. 41	·1005					
		14. 7	·1012					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		July 18						
h m	° ′ ″	h m		h m		h m	°	°
		15. 54	·1005					
		16. 30	·1011					
		17. 33	·1003					
		18. 32	·1017					
		20. 31	·0980					
		21. 10	·0994					
		22. 32	·0982					
		23. 55	·0981					
July 19		July 19		July 19				
0. 7	22. 18. 10	0. 15	·0982	0. 30	·01270	1. 40	63 ·0	64 ·0
2. 43:	23. 30		***	2. 41	·01075	3. 40	63 ·0	63 ·0
5. 25	20. 30	0. 55	·0986	4. 29	·01030	9. 40	59 ·5	62 ·5
5. 52:	16. 40	1. 30	·0988	5. 44	·01060	22. 40	64 ·0	67 ·0
13. 20	20. 0		***	9. 29	·01260			
19. 13	11. 0	4. 15	·1015	12. 0	·01300			
23. 0	19. 20		***	16. 0	·01240			
		4. 30:	·1010	20. 0	·01100			
		4. 58	·1015	22. 50	·00870			
		5. 2	·1023	23. 53	·00762			
		5. 5	·1017	23. 59	·00767			
			***					
		5. 40	·1010					
		6. 20	·1033					
			***					
		7. 16	·1017					
			***					
		9. 38	·1025					
		14. 30	·1019					
		18. 0:	·1036					
		22. 55	·1010					
			***					
July 20		July 20		July 20				
0. 0	22. 23. 50	0. 0	·1016	0. 30	·00798	9. 40	69 ·0	71 ·5
7. 50	17. 30		***	5. 0	·00935	21. 40	66 ·0	66 ·0
19. 50	13. 20	3. 0	·1010	10. 39	·00913			
23. 55	22. 50		***	12. 0	·00935			
		10. 15	·1017	14. 0	·01055			
			***	16. 0	·01270			
		16. 30	·1019	17. 27	·01530			
		19. 0	·1019	21. 41	·01473			
		23. 55	·0995	23. 55	·01163			
July 21		July 21		July 21				
0. 12	22. 22. 50	0. 30	·0997	0. 18	·01372	1. 40	69 ·0	68 ·5
6. 0	18. 0	1. 45	·0997	2. 49	·00875	3. 40	60 ·0	72 ·0
18. 0	14. 30	3. 28	·1010	4. 58	·00938	9. 40	69 ·5	72 ·5
23. 55	23. 20	8. 0	·0996	8. 0	·00930	21. 40	62 ·0	62 ·5
		10. 10	·1006	13. 57	·01505			
		18. 0:	·1020	21. 44	·01400			
		19. 0	·1019	23. 58	·01220			
		21. 15	·1006					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	July 21 h m		h m		h m	■	○
		22. 40	·1000					
		23. 45	·0987					
July 22		July 22		July 22				
0. 25	22. 23. 30	0. 30	·0990	0. 25	·01136	1. 40	68 ·0	68 ·0
5. 50	17. 30	3. 55	·1010	1. 49	·00840	3. 40	69 ·0	71 ·0
17. 50	15. 30		***	4. 35	·00945	9. 40	68 ·0	70 ·0
	(†)	5. 0	·1009	8. 38	·00898	21. 50	63 ·0	66 ·5
			***	15. 0	·01515			
		11. 50	·1010	23. 54	·01445			
		12. 50	·1006					
		16. 30	·1018					
		23. 30	·1013					
July 23		July 23		July 23				
0. 3	22. 23. 10	0. 15	·1038	0. 0	·01450	1. 40	63 ·5	67 ·0
1. 30	26. 30	0. 45	·1036	2. 30	·01470	3. 40	64 ·0	68 ·0
7. 20	19. 20	4. 30	·1027	7. 30	·01050	9. 40	67 ·0	69 ·0
8. 3:	16. 20	7. 15	·1048	11. 0	·00955	21. 40	63 ·0	66 ·0
8. 50	19. 10	7. 30	·1037	14. 18	·01070			
20. 55	15. 30	8. 47	·1015	17. 30	·01260			
23. 55	25. 30	18. 30	·1026	20. 30	·01330			
		23. 30	·1026	23. 2	·01372			
				23. 55	·01575			
July 24		July 24		July 24				
0. 50	22. 28. 20	2. 30	·1032	1. 1	·01335	1. 40	62 ·5	65 ·0
10. 20	21. 20	2. 40	·1034	4. 30	·01233	3. 40	63 ·0	65 ·0
11. 0	18. 0	3. 0	·1025	10. 54	·01138	9. 40	63 ·0	65 ·0
14. 12	18. 50	4. 0	·1032	17. 30	·01245	21. 40	59 ·0	59 ·0
15. 13	14. 20	5. 30	·1030	23. 55	·01135			
23. 55	26. 30	8. 30	·1045					
		10. 30	·1044					
		13. 30	·1028					
		14. 40	·1038					
		20. 15	·1021					
		22. 30	·1028					
		23. 30	·1022					
July 25		July 25		July 25				
0. 0	22. 27. 0	0. 17	·1017	0. 0	·01117	1. 40	63 ·0	64 ·0
6. 0	19. 10	2. 53	·1021	2. 39	·01782	3. 40	65 ·0	66 ·0
18. 0	13. 30		***	5. 0	·00880	9. 40	66 ·8	68 ·5
23. 55	23. 30	5. 0	·1008	10. 30	·00885	21. 40	59 ·0	62 ·0
			***	16. 54	·01445			
		6. 49	·1021	23. 55	·01360			
		7. 55	·1012					
		10. 24	·1022					
			***					
		11. 15	·1012					
			***					
		12. 16	·1034					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h	° ′ ″	July 25 h m		h m		h m	○	○
		13. 21	·1023					
		14. 20	·1021					
		18. 0	·1027					
		19. 30	·1020					
		23. 30	·1017					
July 26		July 26		July 26				
0. 11	22. 24. 40	0. 30	·1016	1. 0	·01322	1. 40	61 ·0	61 ·0
1. 50	27. 0	0. 50	·1025		***	3. 40	64 ·0	66 ·0
	***	1. 20	·1013	4. 51	·00855	9. 40	65 ·0	67 ·0
4. 40	25. 40	1. 41:	·1017	5. 30	·00895	23. 8	61 ·0	61 ·0
5. 10:	19. 50	2. 12	·0998	12. 30	·00773			
5. 43:	22. 0	2. 55	·1016	17. 14	·01388			
6. 35	18. 30	3. 29	·1003	22. 0	·01345			
11. 20	19. 30	3. 46	·1018	23. 20	·01268			
11. 50	16. 30	3. 55	·1014					
12. 25	22. 10	4. 16	·1036					
13. 12	9. 30	4. 56	·0996					
13. 25	10. 30	5. 38	·1027					
13. 40	6. 30	6. 12	·1016					
14. 0	11. 30	6. 56	·1031					
14. 40:	7. 20	7. 50	·1022					
16. 30:	17. 40		***					
19. 16	11. 50	8. 21	·1030					
23. 15	23. 0	8. 39	·1024					
		8. 55	·1031					
		9. 32	·1018					
			***					
		11. 41	·1033					
		12. 10	·1010					
		12. 46	·1032					
		13. 40	·1010					
		13. 54	·1019					
		14. 7	·1014					
		14. 29	·1021					
		15. 0	·1009					
		18. 45	·1016					
			***					
		20. 25	·1000					
		22. 0	·0994					
		23. 15	·0993					
		23. 55	·1004					
July 27		July 27		July 27				
0. 0	22. 24. 30	0. 2	·1000	0. 0	·01185	11. 43	67 ·0	69 ·0
1. 30:	26. 30		***	2. 22	·00825	21. 40	65 ·0	66 ·0
10. 26	13. 40	1. 28	·0998	5. 30	·00945			
13. 50	16. 20		***	10. 0	·00918			
14. 10:	21. 0	1. 49	·0988	19. 47	·01328			
19. 12	13. 0	2. 33:	·1004	23. 55	·01282			
23. 55	19. 50	2. 58	·0989					
			***					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	July 27 h m		h m		h m	°	°
		3. 50	·1013					
		4. 9	·1004					
		4. 15	·1007					
		4. 39	·0998					
		9. 46	·101[illegible]					
		11. 17	·1006					
		12. 14	·1012					
		12. 51	·1008					
		13. 0	·1008					
		14. 3	·1002					
		14. 16	·1006					
		21. 30	·0988					
		23. 55	·0991					
July 28		July 28		July 28				
0. 32	22. 21. 30	0. 0	·0992	1. 0	·01245	1. 40	67 ·0	69 ·0
7. 5	17. 10	0. 45	·0984	6. 45	·00910	3. 40	64 ·0	66 ·0
19. 2	12. 0	2. 4	·1000	10. 30	·00912	9. 40	69 ·0	71 ·0
23. 55	25. 40		(†)	20. 30	·01480	21. 40	65 ·0	66 ·0
		3. 34	·1002	23. 55	·01305			
		3. 53	·0992					
		4. 24	·1004					
		5. 54	·1010					
		19. 48	·1007					
		21. 10	·0991					
		22. 24	·1004					
		23. 55	·0987					
July 29		July 29		July 29				
0. 25	22. 27. 10	0. 23	·0993	0. 25	·01235	1. 40	70 ·0	71 ·0
5. 30	22. 0	0. 27	·1000	2. 27	·00960	3. 40	73 ·0	74 ·0
6. 0	12. 0	0. 29	·0994	6. 30	·01063	9. 40	71 ·0	72 ·0
7. 30	19. 0	0. 58	·1017	10. 14	·01030	21. 40	64 ·0	67 ·0
8. 16	10. 30	1. 36	·0984	15. 18	·01570			
10. 0	18. 20	2. 16	·1017	21. 55	·01490			
10. 43	11. 20	3. 11	·0986	23. 55	·01420			
11. 20	13. 30	3. 34	·1011					
11. 45	23. 20	4. 28	·0985					
12. 55	13. 20	4. 55	·1012					
23. 55	21. 10	5. 31	·0984 ***					
		6. 16	1011 ***					
		6. 45	·0998					
		7. 5	·1018 ***					
		7. 55	1013					
		8. 17	·0986					
		9. 7	·0996					
		9. 26	·0993					
		9. 50	·0999					
		10. 33	·0989 ***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	July 29 h m		h m		h m	°	°
		11. 0	·0998 ***					
		11. 54	·0987					
		13. 15	·0998					
		13. 50	·0993					
		16. 32	·1003					
		17. 30	·0995					
		19. 45	·1000					
		21. 25	·0978					
		22. 45	·0976					
		23. 55	·0984					
July 30		July 30		July 30				
0. 22	22. 21. 40	0. 30	·0984	1. 0	·01255	1. 40	68 ·0	69 ·0
1. 55	25. 0	3. 0	·1007	2. 40	·00930	3. 40	70 ·0	72 ·0
6. 0	16. 0	5. 25	·0998	4. 58	·01025	9. 40	68 ·0	71 ·0
8. 50	15. 50	5. 50	·1011	6. 19	·00975	21. 40	63 ·0	63 ·0
8. 57	7. 30	6. 45	·1002	15. 10	·01515			
9. 12	15. 50	8. 50	·1003	23. 55	·01425			
12. 32	16. 30	9. 3	·1033					
12. 50	14. 20	9. 52	·1000					
13. 12	19. 40	12. 20	·1006					
14. 35	10. 10	13. 0	·1022					
23. 55	20. 40	15. 15	·1002					
		17. 0	·1005					
		19. 25	·1000					
		21. 58	·0989					
		23. 55	·0989					
July 31		July 31		July 31				
0. 16	22. 21. 20	0. 30	·0987	0. 30	·01433	1. 40	63 ·0	64 ·0
1. 0	24. 20	3. 0	·1008	2. 51	·01350	3. 40	67 ·0	67 ·0
7. 50	17. 0	6. 40	·1008	5. 42	·00922	9. 40	69 ·0	69 ·0
10. 40	20. 20	7. 0	·1013	9. 18	·00982	21. 50	68 ·0	71 ·5
10. 50	18. 30	9. 18	·1006	11. 20	·00910			
11. 3	20. 50	23. 30	·1006	15. 30	·00960			
11. 42	14. 20			21. 56	·01100			
12. 57	14. 40			23. 55	·00980			
14. 3	14. 40							
14. 30	18. 30							
15. 40	13. 10							
23. 55	20. 40							
Aug. 1		Aug. 1		Aug. 1				
0. 15	22. 22. 40	0. 16	·0974	0. 42	·00935	1. 40	70 ·5	72 ·5
1. 58	25. 10	0. 25	·0982	4. 0	·01053	3. 40	73 ·0	74 ·5
7. 30	17. 0	1. 6	·0968	8. 0	·01090	9. 40	75 ·0	[illegible] ·0
19. 32	11. 10	2. 13	·0996	10. 30	·01052	21. 40	68 ·0	68 ·0
23. 55	21. 20	3. 15	·0988	12. 0	·01090			
		4. 5	·0995	16. 22	·01635			
		4. 55	·0990	20. 0	·01575			
		7. 2	·0992	21. 53	·01540			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 1 h m		Aug. 1 h m		h m	°	°
		7. 50	·0998	23. 0	·01553			
		8. 20	·0991	23. 55	·01530			
		8. 49	·0997					
		12. 17	·0985					
		14. 48	·0958					
		14. 58	·0985					
		15. 58	·0997					
		23. 55	·0983					
Aug. 2		Aug. 2		Aug. 2				
0. 0	22. 22. 30	0. 6	·0979	0. 30	·01478	1. 40	70 ·0	70 ·0
2. 0:	26. 0	6. 47	·0997	3. 30	·01002	3. 40	73 ·0	74 ·0
13. 6	16. 30	12. 27	·0995	5. 30	·01075	9. 40	74 ·0	74 ·0
13. 30:	19. 10	13. 36	·1006	9. 23	·01060	22. 54	69 ·0	70 ·0
14. 15:	15. 10	14. 36	·1000	15. 30	·01080			
14. 50	19. 30		***	18. 49	·01615			
19. 0	10. 20	15. 27	·1007	23. 5	·01550			
23. 0	18. 10	16. 34	·1007					
			***					
		20. 12	·0998					
		23. 6	·0991					
		23. 23	·0985					
		23. 46	·0993					
Aug. 3		Aug. 3		Aug. 3				
0. 0	22. 22. 0	0. 4	·0987	0. 0	·01485	11. 45	74 ·0	75 ·0
1. 40	27. 10		***	3. 9	·01080	21. 40	67 ·0	69 ·0
	***	1. 35	·0996		***			
2. 55	25. 10		***	7. 30	·01182			
3. 22:	28. 10	1. 55	·0983	9. 30	·01145			
	***	2. 12	0996	14. 40	·01635			
4. 42:	23. 30	2. 20	·0985	23. 55	·01545			
5. 20:	26. 40	2. 40	·1012					
6. 45	20. 20		***					
8. 42:	13. 30	3. 6	·0987					
8. 48:	14. 50	3. 17	·1002					
9. 10:	11. 20		***					
9. 25:	14. 0	3. 40	·0984					
10. 0	16. 20		***					
14. 0	17. 0	3. 50	·1001					
14. 35:	21. 40		***					
16. 30	12. 30	4. 0	·0991					
23. 55	22. 0		***					
		4. 25	·1010					
			***					
		4. 55	·1002					
		5. 3	·1007					
			***					
		5. 50	·0971					
			***					
		7. 2	·0996					
		7. 35	·0983					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 3 h m		h m		h m	°	°
		9. 15	·0996					
		9. 32	·0984					
		18. 52	·0994					
		19. 43	·0982					
		20. 30	·0984					
		22. 35	·0967					
		23. 30	·0983					
Aug. 4		Aug. 4		Aug. 4				
0. 43	22. 22. 40	1. 0	·0988	0. 0	·01450	1. 40	71 ·0	72 ·0
7. 15	17. 40	5. 0	·0976	3. 3	·01075	3. 40	75 ·0	76 ·0
19. 15	15. 0		***	7. 0	·01165	9. 40	73 ·0	74 ·0
23. 55	22. 0	6. 12	·0983	9. 27	·01140	21. 40	65 ·0	67 ·0
		10. 45	·0996	13. 0	·01595			
		18. 45	·1000	21. 46	·01190			
		21. 53	·0990	23. 55	·01455			
		23. 55	·0986					
Aug. 5		Aug. 5		Aug. 5				
0. 32	22. 24. 20	0. 45	·0977	1. 0	·01395	1. 40	70 ·0	70 ·0
7. 7:	14. 30	2. 30	·0979	3. 30	·00990	3. 40	72 ·0	73 ·0
8. 45	16. 40	2. 45	·0987	9. 18	·01035	9. 40	69 ·0	70 ·0
9. 25:	12. 0	5. 40	·0995	13. 31	·01425	21. 40	62 ·0	63 ·0
9. 43:	15. 10	7. 0	·0987	23. 55	·01382			
10. 10:	13. 0	7. 30	·0996					
11. 0:	16. 0	8. 30	·0994					
11. 40	14. 40	9. 11	·1010					
12. 27:	17. 30	9. 29	·1007					
12. 55:	16. 30	10. 0	·0983					
13. 28:	19. 0	13. 40	·1000					
14. 30	15. 20	21. 0	·0981					
17. 16:	17. 20	23. 30	·0978					
18. 20	14. 0							
18. 52	15. 30							
23. 55	22. 30							
Aug. 6		Aug. 6		Aug. 6				
0. 12	22. 23. 10	0. 30	·0986	0 18	·01460	1. 40	63 ·0	64 ·0
1. 38:	26. 0	2. 23	·0988	5. 35	·00925	3. 40	66 ·0	66 ·0
11. 10	15. 30	4. 0	·0994	6. 27	·00958	9. 40	67 ·0	70 ·0
11. 50	10. 20	5. 15	·0986	10. 38	·00900	21. 40	63 ·0	64 ·0
12. 27	19. 20	9. 50	·0995	12. 8	·01025			
13. 48:	8. 0	10. 15	·0992	12. 40	·01040			
15. 27:	19. 30	10. 58	·1002	17. 0	·01420			
15. 47:	18. 10	11. 45	·0988	21. 52	·01435			
16. 33	24. 50	12. 10:	·1009	23. 55	·01405			
17. 40	18. 0	12. 32	·0983					
19. 38	21. 0	13. 20	·0981					
20. 12:	18. 40	13. 52	·1005					
20. 18	20. 40	14. 53	·0992					
20. 47:	19. 0	15. 20	·1011					
21. 5	20. 50	16. 0	·0988					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Readings of Thermometers. Göttingen Mean Solar Time.	Of H. F. Magnet.	Of V. F. Magnet.
Aug. 6	° ′ ″	Aug. 6						
h m		h m		h m		h m	°	°
22. 3	22. 17. 10	17. 0	·1011					
23. 55	23. 20	21. 46	·1003 (†)					
Aug. 7		Aug. 7		Aug. 7				
0. 10	22. 24. 30	0. 28	·0976	0. 0	·01395	1. 40	65 ·0	67 ·0
1. 0	27. 20	0. 55	·0972	3. 15	·00970	3. 40	70 ·0	71 ·0
7. 57	15. 40	2. 17	·0992	4. 0	·01023	10. 2	72 ·0	73 ·0
8. 37	7. 0	2. 34	·0987	8. 50	·01090	21. 40	65 ·5	68 ·0
9. 3	15. 10	2. 58	·0996	10. 42	·01035			
10. 26	9. 0	3. 38	·0988	15. 36	·01570			
10. 48:	5. 20	3. 48	·0999	22. 4	·01524			
11. 1	9. 20	5. 49	·0977	23. 55	·01135			
11. 22:	6. 10	6. 19	·0985					
12. 13	17. 20	6. 45	·0979					
12. 52	16. 0	7. 4	·0991					
13. 10	10. 10		***					
13. 50	18. 30	8. 9	·0968					
14. 40	13. 30	8. 42	·0971					
16. 4:	15. 50	8. 54	·0983					
16. 56	13. 10	9. 12	·0970					
20. 20	15. 20	9. 32	·0976					
23. 55	28. 20		***					
		11. 32	·0963					
		12. 54	·0976					
		13. 15	·1002					
		13. 58	·0973					
		23. 58	·0976					
Aug. 8		Aug. 8		Aug. 8				
0. 25	22. 27. 30	0. 23	·0973	0. 36	·01013	1. 40	73 ·0	75 ·0
6. 17	16. 50		***	3. 0	·01140	3. 40	79 ·0	80 ·0
8. 43:	11. 0	5. 11	·0928	9. 29	·01300	9. 40	74 ·0	76 ·5
9. 50:	16. 20		***	11. 24	·01590	21. 40	63 ·5	67 ·0
10. 46:	14. 40	5. 48	·0945	23. 55	·01437			
11. 10:	19. 0	8. 42	·0935					
11. 45	18. 40	10. 57:	·0963					
12. 55:	12. 20	11. 52	·0940					
13. 50	17 30	16. 25	·0960					
20. 30	16. 20	23. 36	·0946					
23. 55	26. 50							
Aug. 9		Aug. 9		Aug. 9				
0. 20	22. 27. 20	0. 24	·0957	0. 10	·01480	1. 40	68 ·0	68 ·0
2. 20	27. 0	2. 12	·0967	4. 43	00965	3. 40	70 ·0	70 ·0
6. 20	16. 30	4. 21	·0954	5. 30	·00990	9. 40	69 ·0	72 ·0
11. 3	16. 30	5. 45	·0956	9. 37	·00948	23. 6	61 ·0	63 ·5
11. 20:	18. 0	6. 22	·0951	15. 8	·01535			
13. 26:	11. 0	7. 49	·0963	19. 3	·01485			
14. 44	18. 10	8. 28	·0957	19. 7	·01435			
16. 5:	14. 0	10. 47	·0965	19. 42	·01480			
19. 55	14. 0	12. 40	·0963	23. 22	·01445			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Readings of Thermometers. Göttingen Mean Solar Time.	Of H. F. Magnet.	Of V. F. Magnet.
Aug. 9	° ′ ″	Aug. 9						
h m		h m		h m		h m	°	°
23. 55	22. 25. 0	14. 15	·0953					
		15. 40	·0969					
		18. 17	·0957					
		23. 58	·0958					
Aug. 10		Aug. 10		Aug. 10				
0. 0	22. 27. 40	0. 0	·0958	0. 0	·01460	12. 3	66 ·0	67 ·0
12. 16	17. 0	1. 20	·0963	3. 30	·01260	21. 40	63 ·0	64 ·0
12. 40	20. 0	1. 44	·0957	6. 7	·01895			
13. 30	17. 0	2. 4	·0960	8. 51	·00920			
19. 30	13. 40	4. 34	·0955	10. 30	·00882			
23. 55	27. 30	5. 18	·0942	14. 0	·01050			
		7. 58	·0960	18. 37	·01532			
		12. 5	·0960	22. 10	·01500			
		12. 36	·0969	23. 55	·01363			
		19. 24	·0960					
		23. 0	·0933					
		23. 57	·0939					
Aug. 11		Aug. 11		Aug. 11				
0. 55	22. 26. 40	1. 58	·1018	1. 13	·01195	1. 40	66 ·0	66 ·0
5. 0	19. 20	4. 36	·1017	2. 37	·00950	3. 40	79 ·0	73 ·0
14. 0	16. 0	5. 5	·1046	5. 0	·01030	9. 40	79 ·0	70 ·0
15. 30:	13. 30	5. 50	·1042	5. 6	·01045	21. 45	65 ·0	67 ·0
16. 5:	17. 0	6. 10	·1026	5. 12	·01040			
16. 50:	14. 30	6. 24	·1030	9. 16	·01010			
17. 30:	18. 20	6. 34	·1026	14. 16	·01568			
18. 56:	13. 0	6. 59	·1040	22. 0	·01515			
23. 55	24. 0	7. 30	·1023	23. 55	·01295			
		9. 48	·1039					
		15. 46	·1034					
		16. 30	·1041					
		17. 5	·1034					
		18. 42	·1047					
		23. 57	·1014					
Aug. 12		Aug. 12		Aug. 12				
0. 0	22. 24. 10	0. 0	·1015	0. 8	·01240	1. 40	72 ·0	73 ·0
1. 30:	26. 20	1. 54	·1005	1. 21	·00970	3. 40	76 ·0	78 ·0
6. 50	14. 50	19. 32	·1025	4. 30	·01136	9. 40	75 ·0	75 ·0
6. 16	13. 20	23. 58	·1012	10. 0	·01090	21. 40	69 ·0	70 ·0
23. 55	21. 20			16 38	·01665			
				22. 3	·01630			
				23. 55	·01545			
Aug. 13		Aug. 13		Aug. 13				
0. 5	22. 21. 50	0. 0	·1017	0. 20	·01510	1. 40	73 ·0	75 ·0
7. 8	16. 20	1. 30	·1026	2. 23	·01460	3. 40	75 ·0	77 ·0
11. 22	16. 20	6. 3	·1016	4. 23	·01098	9. 40	75 ·5	77 ·5
12. 0	12. 40	6. 23	·1020	6. 30	·01137	21. 40	65 ·0	67 ·0
20. 22	14. 40	7. 18	·1015	9. 47	·01105			
23. 55	27. 20	17. 30	·1036	14. 48	·01670			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Aug. 13		Aug. 13				
h m	° ′ ″	h m		h m		h m	°	°
		21. 48	·1027	22. 0	·01568			
		23. 58	·1015	23. 55	·01495			
Aug. 14		Aug. 14		Aug. 14				
0. 25	22. 29. 30	0. 20	·1010	0. 30	·01435	1. 40	70 · 0	70 · 0
10. 0	17. 10	1. 33	·1002	3. 55	·00995	3. 40	72 · 0	74 · 0
11. 50:	12. 30	3. 30	·1028	9. 46	·00985	9. 40	70 · 0	70 · 0
13. 0	15. 0	5. 0	·1023	17. 47	·01600	21. 40	65 · 0	67 · 0
23. 55	24. 30	5. 56	·1029	22. 30	·01535			
		6. 17	·1023	23. 55	·01425			
		7. 26	·1032					
		8. 0:	·1023					
		8. 46	·1027					
		10. 13	·1033					
		10. 50	·1026					
		11. 56:	·1031					
		17. 0	·1039					
		23. 55	·1008					
Aug. 15		Aug. 15		Aug. 15				
0. 25	22. 25. 0	0. 25	·1012	0. 44	·01335	1. 40	70 · 0	73 · 0
6. 42	14. 30	0. 59	·1014	2. 35	·00965	3. 40	73 · 0	74 · 0
12. 18	16. 30	3. 0	·1003	5. 30	·01020	9. 40	71 · 0	72 · 0
13. 40:	12. 20	13. 0	·1043	9. 23	·01028	21. 40	61 · 0	61 · 0
14. 20:	14. 30	23. 51	·1017	13. 54	·01575			
14. 45	13. 30			21. 57	·01490			
20. 20	10. 50			23. 55	·01362			
23. 55	21. 10							
Aug. 16		Aug. 16		Aug. 16				
0. 0	22. 21. 10	0. 0	·1022	0. 10	·01315	1. 40	68 · 0	70 · 0
7. 30	12. 30	13. 28	·1044	2. 7	·00940	3. 40	72 · 0	73 · 0
19. 30	15. 20	18. 52	·1039	4. 3	·01010	9. 40	68 · 0	70 · 0
23. 15	22. 20	23. 17	·1000	9. 16	·00980	23. 5	69 · 0	70 · 0
				22. 0	·01550			
				23. 22	·01500			
Aug. 17		Aug. 17		Aug. 17				
0. 0	22. 26. 40	0. 0	·1000	0. 0	·01450	9. 40	72 · 0	73 · 5
8. 30	11. 20	2. 23	·1010	4. 2	·01030	21. 45	64 · 0	65 · 0
20. 30	13. 20		***	8. 0	·01060			
23. 55	20. 30	4. 36	·1014	10. 0	·01035			
		17. 10	·1030	16. 34	·01625			
		23. 55	·1017	23. 55	·01535			
Aug. 18		Aug. 18		Aug. 18				
0. 48	22. 21. 40	0. 48	·1019	1. 0	·01555	1. 40	65. 0	66 · 0
6. 55	16. 30	16. 36	·1044	9. 0:	·01215	3. 40	67. 0	68 · 0
16. 20	16. 50	23. 51	·1031	11. 30	·01535	9. 44	63. 0	65 · 0
16. 40	18. 20			16. 8	·01475	21. 45	58. 0	60 · 0
17. 0	15. 20			17. 0	·01540			
	***			22. 30	·01505			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Aug. 18				Aug. 18				
h m	° ′ ″	h m		h m		h m	°	°
18. 30	22. 12. 30			23. 55	·01415			
20. 38	9. 40							
23. 55	21. 40							
Aug. 19		Aug. 19		Aug. 19				
0. 5	22. 24. 0	0. 0	·1031	0. 0	·01300	1. 40	63. 0	64 · 0
7. 55	16. 20	0. 45	·1025	2. 28	·01835	3. 40	68. 0	69 · 0
9. 16	16. 10	1. 25	·1034	7. 30	·00960	9. 40	65. 0	67 · 0
10. 18	12. 30	2. 50	·1025	9. 52	·00905	21. 40	62. 5	63 · 0
23. 55	22. 50	18. 33	·1049	15. 43	·01501			
		18. 45	·1053	22. 0	·01450			
		23. 52	·1029	23. 58	·01238			
Aug. 20		Aug. 20		Aug. 20				
0. 22	22. 24. 30	0. 25	·1029	0. 28	·01170	1. 40	69 · 0	70 · 0
10. 25	17. 40	4. 3	·1031	1. 35	·00898	3. 40	75 · 0	75 · 0
11. 15:	14. 40	5. 38	·1023	4. 0	·01056	9. 40	73 · 0	73 · 5
12. 30	16. 20	17. 31	·1040	9. 16	·01025	21. 40	65 · 0	67 · 0
15. 56	16. 0	18. 35:	·1054	14. 44	·01580			
16. 22:	17. 30	23. 50	·1012	21. 54	·01520			
17. 0:	15. 40							
18. 0:	20. 20							
19. 23	13. 30							
23. 55	26. 30							
Aug. 21		Aug. 21		Aug. 21				
0. 12	23. 26. 50	0. 17	·1012	0. 19	·01270	1. 40	71 · 0	73 · 0
2. 0	28. 0		***	1. 52	·00955	3. 40	75 · 0	77 · 0
7. 30	15. 30	1. 20	·1004	4. 21	·01095	9. 49	73 · 0	74 · 0
8. 10	16. 0	1. 55	·1013	9. 52	·01105	21. 40	68 · 0	69 · 0
9. 17:	8. 40	2. 30	·1000	14. 48	·01632			
11. 30	16. 40	6. 29	·1019	21. 53	·01585			
23. 55	24. 30	7. 22	·1019	23. 55	·01483			
		7. 56	·1011					
			***					
		10. 6	·1022					
		14. 30	·1028					
		21. 30	·1020					
		23. 55	·1012					
Aug. 22		Aug. 22		Aug. 22				
0. 32	22. 23. 30	0. 30	·1016	0. 47	·01380	1. 40	73 · 0	75 · 0
11. 45	16. 40		***	2. 27	·01040	3. 40	77 · 0	79 · 0
11. 55	11. 20	2. 0	·1025	4. 30	·01125	9. 40	74 · 0	76 · 0
13. 30	14. 20		***	8. 0	·01078	21. 40	68 · 0	68 · 5
23. 55	21. 0	2. 45	·1020	12. 57	·01675			
			***	18. 20	·01576			
		3. 16	·1025	18. 24	·01530			
			***	19. 0	·01580			
		7. 5	·1020	23. 55	·01487			
			***					
		11. 10	·1032					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Aug. 22 h m		h m		h m	°	°
		16. 0	·1037 ***					
		17. 0	·1045 ***					
		18. 35	·1041 ***					
		18. 43	·1046 ***					
		19. 0	·1039 ***					
		21. 51	·1029 ***					
		22. 30	·1019 ***					
		23. 55	·1027					
Aug. 23		Aug. 23		Aug. 23				
0. 20	22. 21. 10	0. 12	·1040	1. 0	·01405	1. 40	70 · 0	70 · 0
1. 30	19. 50	1. 30	·1032	6. 44	·00973	3. 40	70 · 0	72 · 0
1. 50	23. 0	1. 50	·1046	9. 38	·01015	9. 40	69 · 0	72 · 0
3. 20	19. 20	2. 59	·1027 ***	14. 4	·01570	22. 20	64 · 0	65 · 0
3. 42	16. 0			17. 33	·01525			
9. 20	12. 0	3. 24	·1033 ***	17. 37	·01470			
10. 27	9. 50			18. 7	·01525			
20. 40	8. 40	3. 45	·1023	23. 5	·01372			
22. 27	19. 20	4. 35:	·1033					
		5. 5	·1024					
		5. 26	·1032 ***					
		7. 51	·1030					
		8. 5	·1034					
		9. 11	·1028					
		9. 58	·1045					
		10. 59	·1033 ***					
		18. 0	·1045 ***					
		22. 40	·1034					
		22. 45	·1035					
		23. 5	·1044					
		23. 45	·1029					
Aug. 24		Aug. 24		Aug. 24				
0. 0	22. 22. 0	0. 15	·1035	0. 0	·01400	8. 40	68 · 0	68 · 5
0. 30	24. 30	0. 33:	·1054	0. 31	·01370	21. 40	55 · 0	56 · 0
4. 57	20. 0	0. 57	·1030	0. 35	·01378			
5. 28	16. 10	1. 59	·1026	3. 50	·00890			
5. 50	19. 10	3. 27	·1031 ***	3. 55	·00905			
7. 20	22. 1. 40			4. 10	·00900			
8. 42	21. 41. 50	4. 6	·1015	4. 28	·00910			
9. 7	22. 39. 40	4. 54	·1046	5. 28	·00885			
9. 12	21. 53. 20	5. 22	·1020	5. 31	·00895			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 24 h m	° ′ ″	Aug. 24 h m		Aug. 24 h m		h m	°	°
9. 30	22. 12. 40	5. 41	·1064	5. 37	·00913			
9. 48	14. 30	6. 48	·1021 ***	5. 53	·00910			
10. 3	7. 10 ***	7. 2	·1043 ***	6. 28	·00928			
14. 0	15. 30			6. 46	·00955			
16. 34	17. 40	7. 55	·1004 ***	6. 51	·00945			
17. 36	11. 40 ***	8. 4	·1012 ***	7. 15	·00982			
18. 9	15. 40 ***	8. 32	·1000	8. 4	·00945			
21. 0	15. 30	8. 39	·1043	8. 32	·00900			
23. 58	23. 30	8. 47	·1008 ***	8. 39	·00870			
		9. 6	·1044	8. 47	·00695			
		9. 15	·0924	9. 18	·00770			
		9. 25	·1024	9. 31	·00780			
		9. 36	·1000 ***	10. 3	·01020			
		9. 46	·1012	14. 28	·01522			
		10. 0	·0993 ***	14. 40	·01495			
		11. 8	·1028	21. 49	·01420			
		11. 23	·1017	22. 0	·01405			
		11. 40	·1017	23. 55	·01334			
		12. 0	·1025					
		12. 19	·1017 ***					
		17. 0	·1022					
		18. 20	·1012 ***					
		18. 45	·1022 ***					
		19. 35	·1014 ***					
		23. 30	·1018					
Aug. 25		Aug. 25		Aug. 25				
0. 15	22. 24. 40	0. 12	·1020	1. 0	·01185	1. 40	64 · 0	65 · 0
7. 42	12. 0	0. 28	·1010	2. 41	·00835	3. 40	67 · 0	69 · 0
8. 43	4. 10	0. 42	·1020	4. 0	·00906	9. 40	65 · 0	66 · 0
9. 37	10. 50	0. 53	·1012 ***	5. 0	·00900	21. 40	59 · 0	62 · 0
13. 5	16. 30			8. 0	·00925			
13. 35	20. 10	2. 35	·1022 ***	9. 22	·00878			
14. 30	15. 10			12. 0	·00990			
23. 50	24. 40	4. 30	·1019	14. 0	·01120			
		5. 0	·1026 ***	16. 32	·01500			
		6. 15	·1022	23. 0	·01405			
		7. 31	·1033	23. 55	·01370			
		7. 50	·1026					
		8. 20	·1026					
		8. 32	·1046					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 25 h m		h m		h m	°	°
		8. 55	·1046					
		9. 45	·1022 ***					
		17. 0	·1048 ***					
		21. 48	·1021					
		23. 55	·1026					
Aug. 26		Aug. 26		Aug. 26				
0. 0	22. 24. 0	0. 30	·1022	0. 0	·01360	1. 40	63 ·0	64 ·0
5. 18:	13. 30	1. 31	·1027	4. 28	·00828	3. 40	64 ·0	66 ·0
10. 21	17. 10	2. 19	·1021	5. 28	·00860	9. 40	64 ·0	67 ·0
11. 19	11. 0	4. 3	·1036	7. 0	·00818	21. 40	61 ·0	62 ·0
11. 45	17. 40	5. 0	·1023	13. 0	·00850			
13. 0:	14. 40	5. 23:	·1038	14. 30	·00810			
14. 8:	21. 40	6. 30	·1024 ***	17. 0	·00890			
15. 50	11. 40			21. 0	·01030			
17. 5	16. 30	9. 37	·1034	22. 15	·01050			
23. 55	21. 40	10. 15	·1029	23. 55	·01020			
		10. 47	·1039					
		11. 30	·1033					
		13. 35	·1018					
		15. 2	·1030					
		16. 28	·1020					
		17. 4	·1026					
		19. 5	·1014					
		20. 30	·1003					
		23. 30	·1004					
Aug. 27		Aug. 27		Aug. 27				
0. 2	22. 22. 20	0. 10	·1000	0. 30	·00988	1. 40	65 ·0	67 ·0
6. 0	12. 50	1. 40	·1022	2. 10	·00863	3. 40	65 ·0	67 ·0
9. 17	14. 0	3. 19	·1013	6. 0	·00970	9. 40	68 ·0	68 ·0
9. 55	12. 0	4. 1	·1024	9. 45	·00940	21. 40	58 ·0	60 ·0
10. 45	15. 40	4. 48	·1008	10. 30	·00968			
23. 55	20. 40	6. 30	·1018	14. 0	·01290			
		8. 50	·1018 ***	15. 52	·01560			
				22. 0	·01460			
		16. 0	·1032	23. 55	·01485			
		19. 30	·1022					
		21. 10	·1015					
		23. 55	·1017					
Aug. 28		Aug. 28		Aug. 28				
0. 10	22. 21. 30	0. 15	·1018	0. 30	·01484	1. 40	61 ·0	63 ·0
12. 0	15. 10	3. 50	·1032	1. 30	·01463	3. 40	64 ·0	65 ·0
12. 22	17. 10		(†)	6. 55	·01050	9. 40	63 ·0	65 ·0
14. 17	13. 40	9. 19	·1036	9. 30	·00965	21. 40	56 ·0	58 ·0
23. 57	23. 10	15. 45:	·1039	12. 0	·01005			
		21. 0	·1022	15. 25	·01450			
		23. 30	·1026	23. 10	·01400			
				23. 55	·01380			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 29 h m	° ′ ″	Aug. 29 h m		Aug. 29 h m		h m	°	°
0. 20	22. 23. 30	0. 0	·1032	1. 0	·01370	1. 40	58 ·5	60 ·0
3. 35	25. 50	1. 30	·1043 ***	9. 0	·01375	3. 40	59 ·0	62 ·0
3. 58	20. 20			10. 47	·01000	9. 40	59 ·5	61 ·0
6. 13:	11. 10	3. 9	·1045	11. 1	·01028	21. 40	56 ·0	58 ·0
9. 55	16. 0	3. 20	·1053	12. 0	·01055			
10. 43:	5. 40	3. 28	·1046	12. 24	·01050			
11. 52:	21. 20	3. 36	·1076	14. 0	·01137			
12. 44:	7. 30	3. 40	·1057	14. 42	·01145			
14. 10	21. 20	3. 47	·1068	17. 42	·01384			
15. 38:	16. 0	3. 59	·1035	19. 30	·01355			
16. 0	20. 0	4. 5	·1045	21. 53	·01380			
17. 10	11. 30	4. 36	·1025	23. 55	·01245			
17. 28	14. 30	5. 42	·1045 ***					
18. 2	11. 30							
18. 25	13. 10	6. 10	·1037 ***					
23. 50	19. 40							
		6. 45	·1044					
		7. 15	·1036					
		10. 10	·1054 ***					
		11. 27	·1022					
		11. 50	·1060					
		12. 10	·1059					
		13. 20	·1032					
		13. 46	·1038					
		14. 7:	·1020					
		14. 50	·1036					
		16. 34	·1045 ***					
		21. 25	·1015 ***					
		23. 55	·1019					
Aug. 30		Aug. 30		Aug. 30				
0. 35	22. 22. 30	0. 31	·1027	0. 37	·01132	1. 40	62 ·0	64 ·5
6. 7	17. 30	1. 30	·1031	2. 17	·00815	3. 40	64 ·0	65 ·0
6. 55:	0. 50	1. 48	·1026	5. 45	·00935	9. 40	62 ·0	63 ·0
12. 30	23. 20	3. 55	·1035	5. 55	·00930	23. 5	56 ·0	58 ·0
13. 12:	15. 30	4. 15	·1022	6. 5	·00965			
14. 7:	24. 50	5. 38	·1053	6. 15	·00965 ***			
15. 38	14. 30	5. 53	·1031					
17. 55:	23. 0	6. 10	·1034	6. 35	·00990			
19. 6	12. 40	6. 40	·1035	6. 52	·00983			
19. 58	13. 50	6. 59	·1048	7. 5	·00992			
20. 15	7. 30	7. 15	·1028 ***	7. 48	·01000			
21. 30:	24. 20			12. 42	·00938			
22. 3:	18. 30	9. 35	·1026	18. 55	·01506			
23. 56	22. 30	10. 15	·1040	21. 1	·01450			
		10. 35	·1026	23. 26	·01480			
		10. 45	·1033					
		11. 12	·1022					
		11. 30	·1034					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 30 h m		h m		h m	°	°
		13. 32	·1037					
		14. 3	·1026					
		14. 32	·1037					
		17. 36:	·1020					
		19. 5:	·1037					
		20. 6:	·1019					
		20. 15	·1027					
		21. 30:	·0992					
		22. 15	·1014 ***					
		23. 1	·0997					
		23. 21	·1007 ***					
		23. 44	·1007					
Aug. 31		Aug. 31		Aug. 31				
0. 0	22. 23. 10	0. 10	·1026 ***	0. 0	·01490	11. 55	63 ·0	64 ·8
1. 50	30. 40			1. 40	·01410	21. 40	63 ·0	65 ·0
2. 25	22. 20	0. 39	·1027	2. 0	·01410			
2. 45	24. 30	1. 3	·1053	5. 23	·00935			
3. 20	18. 40	1. 25	·1021	6. 22	·00965			
3. 40	21. 40	1. 48:	·1044	6. 59	·00955			
4. 5	12. 50	2. 19:	·1018	8. 22	·01065			
8. 27	14. 0	2. 41	·1041	11. 55	·00970			
10. 20	9. 30	3. 0:	·1032	15. 0	·00948			
11. 0	8. 40	3. 38	·1061	21. 49	·01140			
11. 40	15. 0	4. 6	·1034	23. 49	·01110			
12. 20:	10. 40	4. 27	·1044					
14. 0	16. 30	8. 17	·1039 ***					
23. 55	21. 30							
		9. 34	·1027					
		9. 52	·1033 ***					
		21. 29	·1012 ***					
		22. 8	·0990 ***					
		22. 30	·0994 ***					
		22. 45	·1003 ***					
		23. 55	·1007					
Sep. 1		Sep. 1		Sep. 1				
1. 5	22. 23. 0	1. 30	·1008	0. 41	·01045	1. 40	67 ·0	68 ·0
6. 58	9. 30	2. 0	·1021	4. 30	·01180	3. 40	72 ·0	73 ·0
8. 0:	6. 0	3. 45	·1015	6. 0	·01167	9. 40	70 ·5	74 ·0
8. 30:	10. 0	4. 10	·1006 ***	8. 5	·01210	21. 40	67 ·0	69 ·5
9. 4:	3. 50			9. 23	·01178			
9. 50	13. 0	6. 0	·1016	15. 30	·01562			
14. 28	15. 0	6. 35:	·1026	17. 30	·01710			
14. 47	19. 20	7. 20	·1015	23. 55	·01655			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 1 h m	° ′ ″	Sep. 1 h m		h m.		h m.	°	°
15. 40	22. 13. 10	7. 22	·1016					
19. 45	10. 20	8. 10	·1020					
23. 55	23. 5	8. 32	·1017					
		9. 10	·1033					
		10. 4	·1021 ***					
		14. 29	·1026					
		14. 47	·1021					
		15. 11	·1027 ***					
		19. 5	·1020					
		19. 46	·1008					
		21. 45	·0992 ***					
		22. 15	·1000					
		22. 30	·1008					
Sep. 2		Sep. 2		Sep. 2				
0. 30	22. 22. 30	0. 0	·1008	0. 40	·01605	1. 40	69 ·5	74 ·0
0. 55	18. 0	0. 32	·1014	2. 45	·01362	3. 40	71 ·5	78 ·0
5. 35:	7. 30	0. 50	·1000	6. 0	·01405	9. 40	72 ·0	78 ·0
6. 30	12. 20	1. 6	·1017 ***	6. 30	·01400	21. 40	67 ·0	69 ·0
8. 30:	8. 30			7. 53	·01445			
9. 40	12. 50	2. 50	·1018	10. 0	·01305			
10. 30	10. 0	4. 5	·1002	15. 7	·01780			
23. 55	20. 30	5. 0	·1014	23. 55	·01550			
		5. 24:	·1003					
		5. 50	·1018					
		6. 31	·1006					
		8. 30	·1013					
		9. 27	·1034					
		10. 25	·1009					
		17. 30	·1016					
		21. 21	·1012					
		22. 7	·1006					
		22. 34	·1000					
		23. 17	·0992					
		23. 45	·1000					
Sep. 3		Sep. 3		Sep. 3				
1. 0	22. 20. 20	0. 30	·1012	0. 39	·01410	1. 40	69 ·0	71 ·0
1. 30:	22. 0	2. 0	·1002	2. 30	·01330	3. 40	71 ·0	72 ·0
1. 55:	20. 30	2. 45	·1009	4. 33	·01118	9. 40	68 ·0	69 ·8
2. 30:	23. 10	3. 29	·1008	4. 45	·01100	21. 40	64 ·0	67 ·5
5. 22:	10. 20		(†)	5. 2	·01000			
6. 20:	13. 30	5. 29	·1012	5. 55	·00995			
7. 12	8. 0	6. 0	·1005	7. 3	·00975			
8. 32	14. 30	6. 40	·1010	11. 0	·01150			
12. 50:	9. 50	7. 6	·0994	12. 15	·01400			
14. 6	17. 20	7. 22	·1007	14. 44	·01300			
15. 0:	13. 10	10. 29	·1011	15. 33	·01310			
15. 30	22. 20	10. 35	·1025	16. 15	·01260			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 3		Sep. 3		Sep. 3				
h m	° ′ ″	h m		h m		h m	°	°
15. 50	22. 20. 20	11. 22	·1028	16. 46	·01120			
16. 28:	37. 20		***	17. 12	·01092			
16. 47	23. 0	15. 18	·1016	17. 19	·01075			
	***	16. 35	·1043	17. 23	·01084			
17. 25	32. 0		***	17. 33	·01075			
17. 44	24. 40	17. 13	·1022	17. 50	·01090			
18. 0	46. 10	17. 25	·1032	18. 10	·00973			
18. 14	22. 40. 0	17. 46	·1018	18. 20	·01012			
18. 20	23. 1. 30	18. 21	·0926	18. 29	·00812			
18. 33	22. 13. 10		(†)	18. 43	·00917			
19. 15	14. 30	18. 55	·0927	18. 50	·00924			
19. 33	34. 50		***	18. 57	·00870			
	(†)	19. 14	·0928	19. 3	·00880			
			(†)		***			
		20. 21	·0928	19. 27	·01002			
		20. 25	·0935	19. 32	·00958			
		20. 31	·0924	19. 35	·00972			
		20. 36	·0929	19. 38	·00948			
			(†)	19. 40	·00968			
		20. 59	·0929	19. 42	·00935			
		21. 17	·0934	19. 51	·01022			
		21. 47	·0965	19. 58	·01020			
		22. 4	·0932	20. 18	·01120			
			***	20. 29	·01078			
		22. 20	·0933		***			
		22. 25	·0956	20. 58	·01220			
			***	21. 3	·01170			
		23. 42	·0950	21. 5	·01195			
		23. 47	·0980	21. 6	·01150			
		23. 50	·0967	21. 8	·01200			
		23. 54	·0974	21. 10	·01150			
				21. 11	·01220			
				21. 12	·01170			
					***			
				21. 52	·01380			
					***			
				23. 55	·01340			
Sep. 4		Sep. 4		Sep. 4				
0. 32	22. 25. 20	0. 3	·0956	0. 57	·01380	1. 40	65 ·0	67 ·0
0. 52	37. 30		***	1. 7	·01427	3. 40	69 ·0	70 ·0
	***	0. 15	·0943	1. 12	·01420	9. 40	65 ·0	67 ·0
3. 50	41. 0	0. 17	·0978	1. 26	·01432	21. 40	60 ·0	63 ·0
	***	0. 19	·0942	2. 24	·01295			
4. 57	24. 30		***	2. 38	·01265			
	***	0. 27	·1010	3. 19	·01118			
5. 27	40. 40	1. 44	·0946		***			
5. 35	15. 0		***	3. 51	·01065			
5. 40	24. 0	1. 54	·0985		***			
5. 50	8. 40		***	4. 17	·01110			
6. 5	28. 20	2. 21	·0971	4. 24	·01100			
6. 17	8. 40	2. 31	·0996	4. 57	·01232			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 4		Sep. 4		Sep. 4				
h m	° ′ ″	h m		h m		h m	°	°
6. 30	22. 22. 0	2. 33	·0972	5. 3	·01225			
6. 53	22. 5. 50	2. 39	·0998	5. 30	·01105			
7. 20	21. 55. 40	2. 58	·0978	5. 35	·01381			
7. 25	22. 15. 0		***	5. 40	·01445			
	***	3. 7	·0991	5. 43	·01395			
7. 35	8. 30	3. 15	·0980	5. 48	·01560			
7. 40	22. 25. 40	3. 29	·1022	6. 6	·01160			
7. 50	21. 51. 30	3. 30	·1014	6. 20	·01235			
8. 0	22. 6. 30		***	6. 29	·01180			
8. 28	17. 20	3. 40	·1031	6. 38	·01172			
8. 40	10. 0	3. 54	·1005	6. 47	·01212			
8. 50	17. 20	3. 56	·1024	7. 6	·01215			
9. 32	9. 10		***	7. 19	·01355			
10. 14	8. 50	4. 8	·1003	7. 23	·01200			
10. 25	13. 30	4. 14	·1031	7. 26	·01237			
10. 55	9. 20		***		***			
11. 5	13. 10	4. 30	·1002	7. 35	·01200			
11. 22	5. 20		***	7. 40	·01082			
11. 40	19. 50	4. 43	·1012	7. 43	·01242			
12. 8	11. 30	4. 50	·1006	7. 48	·01090			
12. 30	16. 20	4. 58	·1036	7. 52	·01115			
20. 5	8. 40		***	8. 6	·01067			
20. 20	16. 10	5. 4	·1014	8. 23	·01065			
23. 55	19. 30		***	8. 33	·01015			
		5. 31	·1123	9. 16	·01000			
		5. 38	·1078	10. 29	·01045			
		5. 40	·1104	10. 48:	·01005			
		5. 42	·1087	11. 30	·01105			
			***	11. 50	·01075			
		5. 56	·1090	14. 30	·01400			
		6. 12	·1025	17. 30	·01370			
			***	19. 12	·01400			
		6. 25	·1046	19. 15	·01360			
			***	21. 10	·01320			
		6. 42	·1019	23. 15	·01355			
		6. 52	·1050	23. 55	·01335			
		7. 0	·1032					
		7. 3	·1039					
		7. 12	·1023					
			***					
		7. 22	·1058					
			***					
		7. 41	·0996					
		7. 42	·1009					
			(†)					
		8. 2	·1000					
		8. 6	·0979					
			***					
		8. 26	·1041					
		8. 37	·1000					
		8. 46	·1027					
		8. 51	·0996					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Sep. 4 h m		h m		h m	°	°
		8.53	·1007					
		8.58	·0997					
		9. 6	·1019					
		9.27	·0997					
		10.30	·1018					
		10.51	·0978					
		11. 7	·1008					
		11.12	·0998					
		11.27	·1004					
		11.49	·0984					
		12. 7	·1000					
		13.38	·1014					
		13.45	·1004					
		17.20	·1013					
		19. 7	·1008					
		19.38	·0994					
		20.18	·1014					
		20.43	·1002					
		21. 9	·1010					
		23.55	·0995					
Sep. 5		Sep. 5		Sep. 5				
0.15	22.20.30	0.21	·0988	0.30	·01275	1.40	65 ·0	67 ·0
				2.56	·01875	3.40	69 ·0	70 ·0
6.22	9.50	0.48	·1006	5. 0	·01893	9.40	65 ·0	67 ·0
20.10	10.20			6.30	·00865	21.40	60 ·0	63 ·0
23.55	17.20	0.57	·0994	7.53	·00915			
				9.42	·00860			
		1.12	·1000	16.15	·01335			
				19.30	·01300			
		2.12	·0996	22.30	·01330			
				23.55	·01285			
		2.32	·1010					
		2.48	·0987					
		2.55	·1011					
		2.59	·1000					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Sep. 5 h m		h m		h m	°	°
		3.12	·1012					
		4. 0	·1003					
		5.33	·1010					
		5.51	·1002					
		5.58	·1016					
		6. 4	·1008					
		6.50	·1022					
		7. 1	·1018					
		7.15	·1023					
		7.46	·1000					
		22.58	·0995					
		23.55	·1005					
Sep. 6		Sep. 6		Sep. 6				
0. 0	22.17.30	0. 0	·1002	0.30	·01190	1.40	64 ·0	64 ·8
12.58	11. 0			3.11	·00810	3.40	64 ·5	67 ·0
13. 3	22.20. 0	0.25	·1009	4.30	·00833	9.45	62 ·3	65 ·6
13.50	21.56.30			7. 2	·00812	22.40	59 ·5	63 ·0
14.22	22. 3.50	1.53	·1017	8. 0	·00840			
15. 0	21.55.30			9. 0	·00840			
15.15	22. 0.10	2.23	·1005	13. 0	·01250			
15.25	21.58. 0			13. 2	·01302			
16.30	22. 9. 0	2.44	·1007					
16.38	2.30			13.30	·01195			
		4. 6:	·1017					
16.55	22.12.50			14.17	·01110			
		5. 5:	·1011	14.23	·01130			
17.49	21.47.30			14.28	·01118			
		6.54:	·1024	14.44	·01155			
19. 0	22.10.20			14.59	·01140			
19.45	4. 0	7.36	·1017	15.15	·01168			
19.50	12.30			15.23	·01163			
20. 5	2.40	8.49	·1028	15.38	·01212			
20.42	23.30			16. 5	·01168			
20.55	11.20	13. 1	·1023	16.22	·01168			
21.15	25.10			16.59	·00775			
22.15	17.40	13. 7	·1063	17.12	·00915			
				17.23	·00965			
22.42	46.30	13.20	·1027	17.28	·00955			
23.59	24.30			17.33	·00975			
		13.25	·1042	17.43	·00935			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Sep. 6 h m		Sep. 6 h m		h m	°	°
		13. 31	·1028 ***	18. 0	·01080			
				18. 39	·01110			
		13. 47	·1058 ***	18. 47	·01075			
				18. 52	·01108			
		14. 17	·1010 ***	18. 57	·01085			
				19. 2	·01107			
		14. 19	·1027 ***	19. 7	·01050			
				19. 22	·01100			
		14. 58	·1016 ***	19. 32	·01030			
				19. 34	·01070			
		15. 40	·1044 ***	19. 39	·01055			
				19. 43	·01105			
		16. 20	·1033 ***	19. 54	·00985			
				20. 6	·01050			
		16. 58	·0943	20. 28	·01050			
		17. 8	·1013	20. 34	·01093			
		17. 16	·0992	20. 47	·01072			
		17. 23	·1023	21. 5	·01128			
		17. 30	·1002	21. 22	·01125			
		17. 34	·1015	22. 8	·01175			
		17. 44	·0970	22. 20	·01310			
		18. 2	·1032 ***	22. 35	·01200			
				22. 37	·01250			
		18. 33	·1017	22. 40	·01200			
		18. 42	·1041	22. 42	·01260 ***			
		18. 48	·1003					
		18. 54	·1023	23. 55	·01260			
		19. 2	·1001					
		19. 6	·1017					
		19. 11	·0983					
		19. 29	·1005 ***					
		19. 34	·0947 ***					
		19. 49	·1004 ***					
		20. 3	·0927 ***					
		20. 33	·0881					
		22. 18	·0886 (†)					
		23. 20	·0882					
		23. 50	·0927					
Sep. 7		Sep. 7		Sep. 7				
0. 2	22. 26. 0	0. 7	·0912	0. 5	·01265	13. 50	62 ·7	67 ·0
0. 4	21. 0	0. 10	·0934	0. 22	·01320	21. 40	60 ·5	64 ·5
0. 12	31. 10	0. 13	·0918	0. 36	·01233			
0. 21	19. 30	0. 15	·0960	1. 25	·01655			
0. 46	34. 20	0. 17	·0955	1. 31	·01495			
0. 48	26. 0 ***	0. 18	·0966	1. 34	·01590			
		0. 20	·0948	1. 48	·01430			
1. 6	21. 50	0. 23	·0966	1. 54	·01495			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 7 h m	° ′ ″	Sep. 7 h m		Sep. 7 h m		h m	°	°
1. 11	22. 31. 30	0. 27	·0954	2. 2	·01327			
1. 12	35. 0	0. 32	·0975	2. 7	·01345			
1. 14	36. 10	0. 37	·0954	2. 14	·01285			
1. 22	10. 30	0. 41	·0983	2. 18	·01292			
1. 30	32. 0	0. 45	·0971	2. 23	·01274			
1. 36	21. 10		***	2. 35	·01345			
1. 50	39. 40	1. 8	·1064	2. 44	·01285			
1. 53	18. 10		***	2. 52	·01289			
1. 58	33. 5	1. 14	·1040	2. 58	·01265			
2. 3	21. 0	1. 22	·1110	3. 4	·01482			
2. 10	30. 40	1. 28	·1071	3. 8	·01380			
2. 11	35. 0	1. 33	·1102	3. 10	·01362			
2. 27	32. 40		***	3. 13	·01394			
2. 31	21. 0	1. 37	·1082	3. 15	·01365			
2. 36	26. 10	1. 44	·1105	3. 21	·01492			
2. 46	22. 0		***	3. 25	·01360 ***			
2. 54	31. 30	1. 50	·1076					
3. 2	21. 0	1. 57	·1094	3. 32	·01272			
3. 10	33. 0	2. 4	·1060	3. 38	·01350 ***			
3. 20	10. 0	2. 8	·1088					
3. 30	30. 40	2. 13	·1064	3. 45	·01320			
3. 33	19. 5	2. 20	·1084	3. 50	·01521			
3. 43	36. 50	2. 22	·1068	3. 58	·01372			
3. 49	7. 0		***	4. 9	·01640			
3. 59	35. 0	3. 23	·1067	4. 14	·01485			
4. 7	16. 40	3. 37	·0943	4. 16	·01505			
4. 15	22. 30	3. 49	·1027	4. 19	·01435			
4. 18	13. 0	3. 52	·1019	4. 22	·01440			
4. 26	21. 30	3. 55	·1025	4. 28	·01370			
4. 32	12. 50	3. 58	·1019	4. 30	·01430			
4. 34	18. 0	4. 5	·1122	4. 40	·01360			
4. 40	11. 0 ***	4. 6	·1097	4. 50	·01520 ***			
		4. 8	·1108					
4. 54	22. 10. 0	4. 30	·0981	4. 59	·01520			
4. 56	21. 49. 40		***	5. 8	·01360 ***			
5. 2	22. 24. 0	4. 46	·1114					
5. 14	10. 20	4. 58	·1092	5. 22	·01370			
5. 15	15. 30	5. 3	·1048	5. 26	·01325 ***			
5. 22	3. 50	5. 17	·1065					
5. 26	10. 20	5. 19	·1078	5. 32	·01345 ***			
5. 33	3. 30 ***	5. 22	·1062					
		5. 25	·1073	5. 52	·01260			
6. 20	18. 40	5. 31	·1061	6. 2	·01295			
6. 23	6. 50	5. 35	·1066	6. 13	·01238			
6. 24	22. 8. 10	5. 42	·1060	6. 20	·01270			
6. 32	21. 20. 0	5. 47	·1072	6. 27	·01695			
6. 41	22. 18. 3 ***	5. 58	·1048	6. 30	·01508			
		6. 4	·1066	6. 32	·01645			
7. 0	5. 40	6. 6	·1056	6. 38	·00908 ***			
7. 8	22. 50	6. 11	·1060					
7. 9	19. 5	6. 28	·1025	6. 58	·01060 ***			
7. 10	22. 22. 50	6. 30	·1110					
7. 30	21. 43. 0	6. 32	·1040					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 7		Sep. 7		Sep. 7		h m	°	°
h m	° ′ ″	h m		h m				
7. 32	22. 12. 0	6. 37	·1110	7. 10	·00975			
7. 54	21. 29. 0	6. 39	·1092		***			
8. 18	58. 0	6. 41	·1107	7. 26	·01367			
8. 27	47. 50	6. 47	·0997	7. 27	·00739			
8. 33	58. 0	6. 53	·1008	7. 30	·00985			
8. 58	21. 55. 30	7. 5	·0989	7. 33	·00725			
9. 11	22. 25. 10	7. 11	·1012	7. 34	·00765			
9. 12	16. 50	7. 20	·0978	7. 36	·00578			
9. 18	29. 20	7. 31	·1138	7. 41	·01140			
9. 49	11. 10	7. 35	·0996	7. 49	·00923			
9. 56	18. 50	7. 41	·1042	7. 53	·00980			
9. 57	11. 0	7. 50	·0918		***			
10. 14	26. 5	8. 6	·0990	8. 8	·00895			
10. 28	7. 0	8. 11	·0973	8. 12	·00905			
	***	8. 17	·0991	8. 18	·00866			
10. 34	10. 0	8. 28	·0963	8. 23	·00928			
10. 35	6. 0	8. 37	·0980	8. 26	·00869			
10. 40	10. 20	8. 52	·0953		***			
10. 46	5. 0	9. 3	·0968	8. 40	·00818			
10. 50	22. 7. 0	9. 5	·0957	9. 10	·00818			
11. 0	21. 59. 0	9. 12	·0964		***			
11. 15	22. 6. 5		***	9. 41	·00672			
	***	9. 38	·0941	9. 44	·00690			
12. 2	3. 0		***		***			
12. 17	7. 0	9. 54	·0985	10. 11	·00494			
12. 33	4. 0		***	10. 13	·00550			
13. 19	9. 10	10. 5	·0942	10. 15	·00565			
14. 35	4. 0	10. 12	·0981	10. 19	·00555			
15. 0	16. 0		***	10. 23	·00512			
15. 26	22. 2. 50	10. 28	·0896	10. 40	·00805			
15. 50	21. 59. 0	10. 45	·1027	10. 48	·00768			
16. 34	22. 5. 0		***		***			
16. 54	3. 10	11. 5	·0976	11. 45	·00898			
17. 38	20. 40	11. 19	·0996	12. 0	·00852			
18. 38	29. 5	11. 25	·0990		***			
19. 3	17. 5	11. 28	·1000	13. 25	·00955			
	***	11. 32	·0911	13. 47	·00925			
19. 48	14. 0	11. 35	·0917		***			
	***	11. 42	·0985	14. 47	·01030			
23. 0	23. 40	11. 50	·0985	15. 22	·00990			
		11. 55	·1002	16. 0	·01135			
		12. 8	·0970	17. 0	·01210			
			***	18. 30	·01175			
		12. 42	·0995	19. 30	·01195			
			***	21. 38	·01285			
		13. 47	·0963	23. 55	·01345			
		14. 30	·0978					
		14. 55	·0962					
			***					
		16. 0	·1002					
			***					
		16. 52	·0998					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 8		Sep. 8		Sep. 8		h m	°	°
h m	° ′ ″	h m		h m				
1. 13	22. 21. 30	0. 8	·0988	1. 30	·01323	1. 40	63·3	67·3
3. 47	16. 40	0. 44	·1016	3. 4	·01200	3. 40	64·0	66·0
4. 47:	10. 0	2. 15	·1002	6. 21	·00900	9. 40	62·5	66·0
5. 30	13. 40	2. 50	·1014	7. 39:	·00920	21. 40	58·0	59·0
6. 25:	5. 0	3. 55:	·1002	9. 0	·00880			
6. 50	9. 0	4. 50	·1030	12. 19	·01320			
11. 30	14. 10	5. 22	·1019	13. 27	·01340			
11. 50	9. 30	6. 16	·1018	14. 0	·01305			
12. 10	15. 20	6. 36	·1044	14. 30	·01305			
13. 33	13. 50	7. 23	·1021	15. 27	·01195			
13. 50	9. 20	11. 35	·1018	16. 9	·01275			
15. 30	5. 30	12. 3	·1045	17. 30	·01226			
16. 25	13. 0	13. 19	·1013	22. 30	·01245			
17. 20	8. 50	13. 38	·1030	23. 55	·01110			
18. 36	20. 50	14. 15	·1010					
20. 20	12. 30	14. 58	·1024					
23. 55	16. 20	15. 42	·0998					
		16. 25	·1019					
		16. 59	·1026					
		18. 15	·0995					
		19. 40	·1019					
		22. 55	·1001					
		23. 55	·1008					
Sep. 9		Sep. 9		Sep. 9				
1. 45	22. 13. 11*	2. 10	·1015	1. 30	·00805	1. 45	63·8	67·0
3. 40	7. 45*		***	2. 58	·00888	3. 40	65·0	66·0
9. 40	11. 31*	6. 40	·1003	6. 30	·00818	9. 40	59·0	60·0
21. 40	13. 54*		***	9. 13	·01038	21. 40	52·5	53·0
		18. 45	·1025	10. 49	·01291			
			***	15. 0	·01210			
		23. 55	·1012	19. 0	·01178			
				19. 18	·01178			
				20. 0	·01145			
				22. 4	·01183			
				23. 0	·01152			
				23. 55	·01060			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 10		Sep. 10		Sep. 10				
h m	° ′ ″	h m		h m		h m	°	°
0. 3	22. 15. 30	0. 7	·1010	0. 23	·00750	1. 40	59 ·0	61 ·0
10. 32	13. 30		***	4. 43	·00945	3. 40	65 ·0	66 ·0
11. 12	9. 40	6. 54	·1006	6. 37	·00860	21. 40	53 ·5	57 ·0
12. 7	12. 0		***	7. 50	·00900			
23. 55	20. 0	11. 2	·1018	9. 28	·00855			
			***	13. 40	·01353			
		11. 20:	·1028	20. 0	·01190			
			***	21. 0	·01170			
		12. 52	·1018	22. 47	·01195			
			***	23. 55	·01130			
		16. 40	·1025					
		23. 1	·1017					
		23. 20	·1022					
		23. 47	·1018					
		23. 59	·1025					
Sep. 11		Sep. 11		Sep. 11				
0. 15	22. 19. 22	0. 17	·1024	1. 54	·00788	1. 40	60 ·0	61 ·0
7. 30	12. 40	2. 4	·1028	6. 10	·00965	3. 40	65 ·0	67 ·0
	***	3. 38	·1014	7. 0	·00888	9. 40	63 ·0	64 ·0
19. 44	19. 0		***	7. 47	·00920	21. 40	54 ·0	55 ·0
23. 55	23. 40	5. 2	·1015	8. 59	·00858			
		6. 24	·0992	15. 0	·01350			
			***	20. 10	·01245			
		9. 50	·1018	21. 22	·01250			
		15. 30	·1020					
		15. 49	·1026					
		17. 54	·1028					
		20. 17	·1003					
		21. 32	·1012					
		22. 49	·1004					
		23. 15	·1008					
		23. 55	·1004					
Sep. 12		Sep. 12		Sep. 12				
0. 5	22. 22. 55	0. 5	·1006	0. 9	·01105	1. 40	61 ·0	63 ·0
7. 28:	10. 50	1. 20	·1021	2. 36	·00810	3. 40	64 ·0	65 ·0
9. 0:	14. 0	3. 18	·1023	5. 24	·00865	9. 48	65 ·3	68 ·0
10. 43	6. 10		***	6. 30	·00860	21. 50	57 ·0	59 ·0
11. 30:	11. 20	4. 44	·1006	7. 41:	·00940			
12. 0	8. 40	5. 23	·1020	10. 58	·00855			
12. 25:	14. 40	5. 38	·1011	16. 14	·01355			
13. 40	12. 30	6. 15	·1019	22. 8	·01280			
23. 55	21. 0	7. 12:	·1009	23. 0	·01292			
		8. 7	·1017	23. 58	·01255			
		8. 25	·1007					
		10. 22	·1010					
		10. 48	·1029					
		11. 35	·1009					
		12. 32	·1026					
		14. 12	·1014					
		16. 6	·1021					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Sep. 12						
h m	° ′ ″	h m		h m		h m	°	°
		22. 48	·0997					
		23. 53	·1004					
Sep. 13		Sep. 13		Sep. 13				
0. 27	22. 21. 0	0. 31	·1008	0. 30	·01235	1. 40	62 ·0	63 ·0
4. 52	10. 30	1. 17	·1014	2. 43	·00860	3. 40	65 ·0	67 ·0
12. 34	11. 20	2. 15	·1009	6. 43	·00940	9. 40	63 ·0	66 ·0
12. 56:	15. 15	2. 47	·1015	7. 49	·00990	22. 50	58 ·0	62 ·0
13. 43	12. 0	3. 15	·1007	10. 0	·00912			
19. 22	13. 0	4. 15	·1009	14. 36	·01420			
23. 55	22. 40	4. 46	·0995	21. 30	·01265			
		5. 4	·1005	23. 7	·01298			
		9. 36	·1010	23. 55	·01283			
			***					
		12. 2	·1012					
		15. 38	·1022					
		22. 40	·1002					
		23. 50	·1007					
Sep. 14		Sep. 14		Sep. 14				
0. 25	22. 22. 30	0. 26	·1011	0. 40	·01250	10. 55	67 ·0	70 ·8
8. 20	11. 0	2. 20	·1011	2. 44	·00870	21. 40	59 ·0	63 ·0
10. 26	8. 55	7. 3	·1001	6. 32	·00935			
	***	8. 38	·1010	7. 43	·01015			
12. 26	4. 45	10. 30	·1000	10. 30	·00930			
	***	18. 2	·1034	14. 44	·01390			
13. 44	8. 40	21. 50	·1016	18. 0	·01325			
16. 5	7. 30	23. 18	·1016	19. 7	·01335			
16. 25:	9. 30	23. 40	·1018	22. 1	·01285			
16. 55	7. 30	23. 55	·1013	23. 55	·01303			
20. 18	8. 0							
22. 33	11. 15							
23. 55	19. 30							
Sep. 15		Sep. 15		Sep. 15				
1. 17	22. 20. 40	1. 25	·1011	1. 22	·01230	1. 40	61 ·0	62 ·0
2. 54	19. 25	2. 44	·1013	4. 12	·00825	3. 40	65 ·0	66 ·0
3. 50	23. 10		(†)	4. 23	·00843	9. 40	64 ·0	64 ·0
5. 30	22. 18. 15	3. 10	·1038	4. 36	·00828	21. 40	59 ·0	61 ·0
7. 26	21. 57. 40	3. 23	·1033	6. 54	·00954			
8. 10	22. 9. 10	3. 40	·1038	7. 15	·01070			
8. 20	3. 50	4. 2	·1016	8. 8	·01055			
8. 57	22. 8. 50	4. 10	·1026	9. 35	·00905			
10. 12	21. 45. 30	4. 35:	·1003	10. 7	·00938			
12. 17	22. 14. 0	5. 52	·1037	10. 17	·00925			
18. 8:	12. 20	6. 40	·0997	15. 6	·01395			
18. 50:	15. 10		***	22. 30	·01322			
23. 55	19. 35	7. 6	·1002	23. 55	·01242			
		7. 22	·0982					
		7. 31	·0993					
			***					
		8. 11	·0989					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Sep. 15 h m		h m		h m	°	°
		8. 21	·1003					
		8. 32	·1000					
		8. 45	·1008					
		9. 17	·1008					
		9. 50	·0985					
			***					
		10. 32	·1011					
		11. 0	·1002					
		12. 13	·1016					
		12. 38	·1009					
		16. 49	·1014					
		18. 31	·1006					
		19. 48	·1016					
		23. 54	·1001					
Sep. 16		Sep. 16		Sep. 16				
0. 12	22. 20. 0	0. 13	·1000	0. 15	·01183	1. 40	64 ·0	66 ·0
6. 12	12. 45		***	2. 12	·00820	3. 40	65 ·0	67 ·0
7. 0	14. 30	2. 3	·1003	6. 40	·00865	9. 40	64 ·5	68 ·0
11. 43	14. 10	5. 38	·1014	7. 30	·00898	21. 40	60 ·0	64 ·5
12. 15	10. 10	6. 5	·1005	9. 3	·00857			
12. 45	12. 15	6. 12	·1012	12. 7	·01025			
13. 20:	6. 10	6. 48:	·0998	12. 52	·01015			
13. 55:	11. 30	9. 25	·1014	14. 3	·01100			
14. 30:	7. 40	10. 44	·1014	16. 39	·01390			
15. 22:	12. 0	11. 6:	·1009	22. 30	·01377			
16. 48:	9. 50	11. 40	·1015	23. 50	·01380			
19. 0	14. 30	12. 15	·1039					
23. 52	20. 0	13. 10:	·1008					
		13. 39:	·1016					
		14. 10	·0997					
		16. 40	·1018					
		17. 36	·1010					
		21. 39	·0995					
		21. 43	·1002					
		22. 52	·1007					
		23. 57	·1003					
Sep. 17		Sep. 17		Sep. 17				
0. 13	22. 22. 20	0. 0	·1004	0. 0	·01318	1. 40	63 ·0	64 ·0
4. 0	13. 10	0. 15	·1004	1. 58	·01085	3. 40	68 ·0	68 ·0
8. 0	1. 20	0. 19	·1011	2. 48	·00874	9. 40	65 ·0	66 ·0
10. 0	13. 20	1. 5	·1000	4. 0	·00898	21. 40	59 ·0	62 ·0
14. 30	16. 10	2. 26	·1009	6. 0	·00837			
15. 0:	18. 10	3. 32	·0992	7. 27	·00915			
17. 30	14. 0		***	9. 11	·00900			
23. 58	20. 30	6. 9	·1002	14. 20	·01410			
			***	19. 30	·01335			
		7. 20	·1004	22. 30	·01345			
		8. 8	·1032	23. 30	·01320			
		9. 11	·1019					
			***					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Sep. 17 h m		h m		h m	°	°
		17. 35:	·1031					
		20. 10	·1031					
		22. 30	·1019					
		23. 45	·1022					
Sep. 18		Sep. 18		Sep. 18				
0. 22	22. 21. 10	0. 29	·1010	0. 30	·01250	1. 40	64 ·0	66 ·0
4. 30	14. 20	2. 30	·1032	3. 43	·00810	3. 40	65 ·0	67 ·0
20. 15	13. 0	2. 55	·1024	6. 51	·00828	9. 40	64 ·0	65 ·0
23. 50	23. 0		***	7. 37	·00860	21. 40	59 ·0	62 ·0
		6. 4	·1031	8. 50	·00810			
		9. 38	·1032	9. 27	·00813			
		17. 55	·1040	14. 58	·01365			
		22. 30	·1022	23. 0	·01302			
		22. 59	·1017	23. 55	·01210			
		23. 55	·1021					
Sep. 19		Sep. 19		Sep. 19				
1. 2	22. 20. 20	0. 10	·1021	1. 0	·01020	1. 40	63 ·0	65 ·0
1. 45	22. 40	2. 25	·1029	3. 10	·00740	3. 40	65 ·0	66 ·0
5. 44	16. 5	0. 52	·1020	5. 48	·00800	9. 40	65 ·0	65 ·0
6. 0:	11. 20	2. 10	·1024	7. 19	·00905	21. 40	59 ·0	63 ·5
7. 30	13. 30	2. 58	·1029	9. 12	·00818			
10. 13	13. 45	3. 20	·1024	11. 30	·00910			
10. 48:	9. 5	4. 4	·1032	16. 50	·01370			
11. 30	13. 30	4. 31	·1026	23. 15	·01350			
16. 6	12. 30	5. 1	·1036	23. 55	·01290			
17. 26:	15. 30	5. 42	·1033					
19. 0	11. 40	5. 52	·1026					
23. 55	18. 10	6. 18	·1036					
		6. 40	·1026					
		6. 58	·1029					
		7. 23	·1026					
			***					
		8. 52	·1032					
		10. 11	·1029					
		10. 40	·1039					
		11. 20	·1028					
		16. 14	·1028					
		16. 35:	·1031					
		17. 13	·1024					
		17. 57	·1030					
		23. 15	·1025					
		23. 57	·1019					
Sep. 20		Sep. 20		Sep. 20				
0. 30	22. 20. 20	0. 32	·1020	0. 30	·01190	1. 40	65 ·0	66 ·0
1. 0	22. 10	0. 43	·1025	2. 21	·00845	3. 40	67 ·0	68 ·0
1. 30:	19. 30	1. 24	·1014	5. 0	·00845	9. 40	65 ·0	67 ·0
5. 0	16. 30	1. 54	·1019	6. 30	·00862	23. 35	57 ·0	58 ·5
	***	4. 48	·1024	7. 23	·00910			
7. 25	14. 30	5. 21	·1018	9. 6	·00847			
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 20		Sep. 20		Sep. 20				
h m	° ′ ″	h m		h m		h m	°	°
12. 45	22. 15. 30	12. 55	·1036	10. 0	·00875			
	***	13. 57	·1043	11. 0	·00970			
13. 39	7. 40	16. 0	·1026	13. 55	·01390			
	***	17. 20	·1039	22. 25	·01323			
16. 27	14. 30	21. 53	·1019	23. 25	·01345			
	***	23. 49	·1031					
17. 15	10. 30							
	***							
18. 0	12. 0							
	***							
21. 10	13. 30							
	***							
21. 52	19. 0							
	***							
22. 53	16. 0							
	***							
23. 17	18. 0							
Sep. 21		Sep. 21		Sep. 21				
0. 0	22. 19. 0	0. 0	·1029	0. 0	·01340	10. 11	64 ·0	65 ·0
1. 32	20. 40	1. 12	·1032	2. 0	·01300	21. 45	60 ·0	62 ·0
4. 30:	15. 50	6. 11	·1033	4. 0	·01160			
7. 40	14. 0	6. 42	·1040	6. 12	·00850			
8. 18	3. 10	7. 20	·1033	7. 0	·00790			
9. 13	15. 0	8. 12	·1043	7. 39	·00845			
9. 30	13. 0	8. 37	·1032	11. 0	·00812			
10. 30	16. 0	9. 0	·1036	14. 0	·00790			
14. 21	14. 5	9. 17	·1030	16. 0	·00845			
14. 44:	16. 0	14. 27	·1030	20. 0	·01175			
15. 51	10. 40	15. 12	·1040	23. 20	·01350			
23. 40	22. 10	16. 30	·1034					
		21. 35	·1028					
		22. 10	·1021					
			***					
		23. 55	·1021					
Sep. 22		Sep. 22		Sep. 22				
0. 21	22. 23. 0	0. 24	·1026	1. 0	·01318	1. 40	64 ·0	65 ·0
8. 0	15. 30	2. 34	·1030	2. 32	·01163	3. 40	66 ·0	67 ·0
13. 22	16. 10	4. 3	·1023	4. 20	·00839	9. 40	66 ·5	71 ·0
14. 33	13. 40	14. 43	·1035	6. 30	·00850	21. 40	55 ·0	56 ·0
	***		***	7. 22	·00893			
15. 0	18. 0	14. 58	·1030	9. 18	·00840			
	***		***	11. 0	·00905			
16. 26	14. 0	16. 10	·1037	15. 17	·01425			
21. 30	16. 0		***	19. 30	·01367			
	(†)	23. 55	·1028	21. 0	·01320			
				22. 0	·01320			
				22. 45	·01332			
				23. 55	·01287			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 23		Sep. 23		Sep. 23				
h m	° ′ ″	h m		h m		h m	°	°
0. 30	22. 21. 0	0. 45	·1032	2. 24	·01168	1. 40	59 ·0	60 ·0
4. 30	17. 0	2. 48	·1037	3. 27	·00968	3. 40	65 ·0	67 ·0
9. 30	12. 0	3. 28	·1025	6. 16	·00862	9. 40	67 ·0	68 ·0
11. 15	11. 0	4. 8	·1021	7. 13	·00922	21. 44	63 ·0	66 ·0
11. 48	13. 0	7. 10	·1032	9. 13	·00845			
15. 0	15. 30	8. 10	·1024	12. 0	·00837			
20. 23	15. 45	11. 30	·1027	19. 15	·01428			
20. 50	11. 0	12. 24	·1022	23. 55	·01410			
21. 30	15. 20	17. 22	·1026					
22. 0	15. 0	19. 30	·1020					
23. 0:	21. 40	19. 55	·1022					
23. 26	20. 30	21. 0	·1020					
		21. 59	·1005					
		22. 38	·1013					
		23. 3	·1008					
		23. 55	·1018					
Sep. 24		Sep. 24		Sep. 24				
0. 50	22. 26. 0	0. 50	·1026	1. 0	·01395	1. 40	63 ·0	64 ·0
3. 8	23. 0	1. 8	·1019	3. 0	·01235	3. 40	63 ·0	65 ·0
4. 0	18. 0		***	5. 28	·00910	9. 40	68 ·0	70 ·0
6. 43	15. 40	2. 20	·1029	7. 0	·00950	21. 40	61 ·0	63 ·0
7. 22	10. 0		***	9. 12	·00874			
8. 47:	16. 0	3. 5	·1023	10. 0	·00872			
10. 0	13. 0	3. 22	·1012	17. 20	·01460			
11. 0	20. 10	3. 42	·1021	22. 15	·01410			
11. 13	17. 0	4. 19	·1021	23. 30	·01437			
11. 25	20. 0	4. 35	·1024	23. 55	·01430			
11. 48	15. 20	6. 8	·1016					
12. 44:	12. 50	7. 55	·1026					
21. 0:	12. 50		***					
23. 55	21. 0	9. 38	·1028					
		10. 22	·1024					
		12. 0	·1040					
		13. 0	·1028					
		18. 30:	·1028					
		20. 30	·1024					
		22. 30	·1010					
		23. 55	·1012					
Sep. 25		Sep. 25		Sep. 25				
0. 40	22. 22. 50	0. 30	·1016	1. 0	·01378	1. 40	64 ·0	66 ·0
9. 43	16. 10	5. 0	·1034	4. 0	·01200	3. 40	66 ·0	67 ·0
10. 13	13. 0	6. 26	·1023	6. 0	·01158	9. 40	64 ·0	67 ·0
17. 0	14. 40	7. 3	·1032	7. 0	·01118	21. 40	54 ·0	55 ·0
17. 30:	17. 30	8. 56	·1037	8. 30	·01040			
21. 30:	17. 30	10. 19	·1044	10. 0	·01110			
23. 55	25. 30	10. 38	·1039	12. 42	·01430			
			(†)	15. 0	·01342			
		21. 54	·1033	19. 0	·01300			
		23. 15	·1024	22. 0	·01235			
		23. 55	·1028	23. 55	·01248			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 26		Sep. 26		Sep. 26				
h m	° ′ ″	h m		h m		h m	°	°
0. 18	22. 25. 20	0. 20	·1028	0. 57	·01253	1. 40	55 ·0	55 ·0
5. 35	15. 0	0. 32	·1039	2. 24	·01175	3. 40	59 ·0	60 ·0
9. 56	9. 30	2. 20	·1032	6. 0	·00850	9. 40	57 ·5	61 ·5
10. 24:	1. 40	3. 45	·1036	7. 12	·00870	21. 40	52 ·0	53 ·0
16. 12	15. 10	3. 55	·1031	11. 0	·00698			
16. 55:	22. 0	4. 20	·1040	19. 38	·01220			
18. 10	14. 0	4. 55	·1032	22. 30	·01235			
20. 38	10. 35	5. 9	·1038	23. 55	·01185			
	***	6. 29	·1036					
21. 50	15. 20	6. 48	·1026					
23. 44	24. 40	8. 23	·1042					
		9. 24	·1046					
		10. 0	·1045					
		10. 40	·1055					
		11. 24	·1043					
		16. 6	·1046					
		16. 43	·1038					
		17. 23	·1042					
		18. 41	·1055					
		20. 42	·1045					
		21. 3	·1039					
		21. 52	·1039					
		22. 25	·1024					
		22. 43	·1026					
		23. 10	·1000					
		23. 17	·1002					
		23. 25	·0998					
		23. 55	·1021					
Sep. 27		Sep. 27		Sep. 27				
0. 20	22. 22. 0	0. 30	·1031	0. 49	·01145	1. 40	56 ·0	57 ·0
1. 13:	30. 15	0. 42	·1048	3. 10	·00690	3. 40	60 ·0	63 ·0
2. 37	22. 20	1. 12	·1051	4. 22	·00745	9. 40	60 ·0	62 ·0
3. 2	27. 0	1. 41	·1026	5. 55	·00725	21. 40	53 ·0	57 ·0
3. 13	21. 20	1. 53	·1031	7. 30	·00795			
	***	2. 6	·1024	9. 43	·00690			
3. 56	23. 40	4. 29	·1040	10. 50	·00683			
4. 29	13. 0	5. 15	·1032	11. 9	·00655			
5. 43	20. 0	6. 6	·1034	11. 32	·00662			
6. 43	22. 17. 0	6. 20	·1024	11. 58	·00660			
8. 11	21. 56. 0	6. 52	·1035	19. 52	·01320			
8. 16	22. 12. 20	7. 13	·1022	21. 52	·01260			
10. 12	8. 40	8. 16	·1058	23. 55	·01310			
10. 59:	22. 16. 0	9. 0	·1021					
11. 25	21. 58. 10	9. 11	·1024					
11. 52	22. 18. 10	9. 29	·1016					
12. 14	11. 0	9. 55	·1027					
	***	10. 53	·1030					
13. 0	10. 30	11. 13	·1022					
13. 50	14. 0	11. 39	·1062					
14. 25	12. 10	12. 4	·1041					
	***	12. 22	·1047					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 27		Sep. 27						
h m	° ′ ″	h m		h m		h m	°	°
22. 51	22. 19. 0	13. 1	·1029					
		13. 30	·1028					
			***					
		18. 48	·1045					
		20. 22	·1027					
		20. 59	·1010					
		21. 29	·1016					
		21. 45	·1010					
		22. 15	·1002					
		22. 55	·1007					
		23. 9	·1012					
		23. 22	·1032					
		23. 38	·1014					
		23. 55	·1022					
Sep. 28		Sep. 28		Sep. 28				
0. 0	22. 25. 25	0. 0	·1020	0. 0	·01278	7. 30	61 ·0	61 ·5
2. 45	24. 30	0. 16	·1000	2. 53	·01040	21. 40	53 ·3	57 ·0
2. 55	28. 15		***	3. 42	·00990			
	***	1. 45	·1020	4. 2	·01020			
3. 50	14. 40	1. 58	·1015	5. 33	·00782			
4. 0	19. 30	2. 20	·1028	6 ·22	·00765			
4. 10	14. 40	2. 42	·1011	7. 26	·00810			
	***	2. 59	·1023	9. 13	·00716			
5. 3	22. 20. 45		***	10. 2	·00745			
	***	3. 38	·1003	11. 2	·00755			
8. 2	21. 58. 40	4. 0	·1046	15. 14	·01200			
9. 12	22. 16. 0		***	23. 12	·01190			
9. 24	9. 30	4. 31	·1008					
9. 38	12. 10	4. 53	·1027					
9. 50	10. 15	5. 14	·1007					
10. 10	13. 50	5. 35	·1022					
10. 44	5. 20	6. 59	·1033					
10. 52	9. 20	7. 26	·1027					
11. 5	1. 20	7. 50	·1029					
11. 20	7. 10	8. 17	·1050					
11. 48	0. 40	8. 55	·1040					
12. 18	11. 10	9. 12	·1017					
13. 0:	7. 0	9. 25	·1026					
13. 58	16. 30	9. 42	·1019					
14. 28:	12. 0	10. 29	·1032					
15. 0	20. 15	10. 40	·1022					
19. 30	14. 40	11. 10	·1060					
	***	11. 44	·1036					
22. 2	15. 0	11. 59	·1045					
23. 25	19. 40	12. 38	·1026					
	***	12. 59	·1032					
23. 58	23. 30	13. 31	·1020					
		14. 15	·1031					
		14. 44	·1019					
		17. 20	·1045					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Sep. 28 h m		h m		h m	°	°
		19. 20	·1036					
		20. 22	·1022					
		23. 7	·0998					
		23. 30	·1013					
		23. 48	·1006					
Sep. 29		Sep. 29		Sep. 29				
1. 12	22. 3. 30	0. 3	·1015	1. 30	·00991	1. 40	56 ·0	57 ·0
3. 56	20. 40	0. 20	·1006	3. 7	·00672	3. 40	60 ·0	61 ·0
4. 20	9. 35	0. 58	·1016		***	9. 40	61 ·5	63 ·5
5. 5	17. 10	1. 46	·1024	4. 43	·00785	21. 40	58 ·0	61 ·0
6. 5	14. 10	3. 10	·1027	6. 29	·00745			
6. 25	22. 7. 30	3. 20	·1019	6. 44	·00785			
6. 33	21. 43. 0	3. 44:	·1029		***			
6. 50	50. 50	4. 0	·1023	7. 12	·00790			
	***	4. 34	·1057	7. 23	·00810			
7. 5	50. 10	5. 10	·1034	7. 30	·00810			
7. 10	21. 42. 20	5. 40	·1034		***			
7. 38	22. 15. 25			8. 27	·00718			
7. 43	15. 45	5. 54	·1029	9. 49	·00685			
7. 49	11. 50		***	9. 57	·00668			
8. 5	18. 30	6. 12	·1037	10. 14	·00665			
	***	6. 14	·1080	10. 23	·00685			
9. 50	18. 20	6. 15	·1050	10. 28	.00666			
10. 18	22. 1. 0	6. 17	·1066	10. 37	·00690			
10. 33	21. 53. 50	6. 19	·1044	10. 44	·00663			
10. 51	22. 9. 40	6. 21	·1052	10. 48	·00702			
10. 59	3. 40	6. 29	·1018	11. 5	·00555			
11. 3	9. 0	6. 38	·1102	11. 7	·00585			
11. 8	3. 30	6. 39	·1090	11. 9	·00532			
11. 14	10. 2	6. 41	·1097	11. 14	·00553			
	***	6. 49	·1071	11. 20	·00480			
11. 25	5. 0	6. 54	·1084	11. 23	·00502			
11. 28	0. 0	6. 56	·1075	11. 32	·00390			
11. 29	22. 8. 30	6. 58	·1085	11. 34	·00420			
11. 32	21. 58. 10	6. 59	·1065	11. 38	·00393			
	***	7. 3	·1071	11. 41	·00415			
11. 47	22. 11. 0	7. 6	·1062	11. 42	·00360			
11. 48	21. 51. 0	7. 10	·1075	11. 44	·00400			
11. 55	22. 14. 30	7. 23	·1054	11. 45	·00150			
12. 0	21. 56. 40	7. 30	·1061		(†)			
12. 8	10. 20	7. 46	·1036	12. 22	·00150			
12. 11	21. 58	7. 56	·1049	12. 25	·00290			
12. 12	22. 6	8. 5	·1048	12. 29	·00150			
	***	8. 12	·1057	12. 32	·00320			
12. 28	46. 0	8. 27	·1044	12. 34	·00210			
	***	8. 49	·1043	12. 35	·00328			
13. 0	56. 10		***	12. 36	·00300			
13. 8	21. 22. 0	9. 36	·1043	12. 37	·00395			
13. 22	22. 0. 45	9. 50	·1063	12. 41	·00150			
13. 26	21. 57. 10	10. 23	·1035	12. 47	·00278			
13. 27	22. 6. 0	10. 37	·1053	12. 49	·00158			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 29 h m	° ′ ″	Sep. 29 h m		Sep. 29 h m		h m	°	°
13. 28	21. 50. 20	10. 42	·1028	12. 57	·00615			
13. 29	22. 6. 0	10. 48	·1053	13. 10	·00300			
13. 43	21. 34. 0	10. 50	·1047	13. 17	·00635			
13. 45	22. 4. 45		***	13. 20	·00470			
	***	11. 5	·1070	13. 22	·00580			
13. 47	22. 8. 0	11. 6	·1098	13. 24	·00440			
13. 48	21. 43. 40	11. 8	·1072	13. 28	·00390			
13. 50	22. 17. 20		***	13. 39	·00510			
13. 52	21. 48. 0	11. 29	·0947	13. 48	·00290			
13. 54	22. 13. 0	11. 33	·0994	13. 51	·00521			
	***	11. 35	·0975	13. 58	·00290			
14. 47	21. 54. 0	11. 37	·0986	14. 0	·00350			
14. 55	28. 50	11. 39	·0960	14. 3	·00158			
	***	11. 42	·1044	14. 4	·00308			
15. 6	43. 0	11. 45	·0946	14. 6	·00160			
15. 13	26. 20	11. 49	·1045		(†)			
	***	11. 50	·0974	15. 43	·00150			
16. 26	21. 49. 50	11. 51	·1057	15. 46	·00280			
	***	11. 52	·1008	15. 54	·00232			
17. 5	22. 29. 0	11. 55	·1036	16. 1	·00434			
	***	12. 2	·0896	16. 6	·00368			
17. 13	25. 30		(†)		***			
17. 14	7. 50	12. 28	·0890	16. 10	·00480			
17. 17	27. 10	12. 31	·0927	16. 17	·00410			
	***	12. 32	·0889	16. 19	·00484			
19. 0	14. 0	12. 42	·0924	16. 24	·00615			
	***	12. 49	·0889	16. 26	·00550			
20. 27	22. 23. 20		(†)	16. 30	·00670			
20. 28	21. 58. 0	12. 52	·0893	16. 32	·00622			
20. 32	22. 16. 30	13. 7	·0990	16. 34	·00741			
	***	13. 10	·0947	16. 39	·00790			
20. 56	23. 30	13. 15	·0992	16. 40	·00670			
	***	13. 20	·1008	16. 41	·00785			
21. 20	9. 0		(†)		***			
	***	15. 53	·0930	16. 48	·00900			
22. 25	19. 0	15. 55	·0949	16. 50	00840			
22. 26	28. 0	15. 59	·0932	16. 51	·00970			
22. 40	14. 10	16. 0	·0930	16. 53	·00898			
	***	16. 1	·0934	17. 1	·01085			
23. 55	22. 0	16. 3	·0967		***			
		16. 5	·0940	17. 10	·00990			
		16. 8	·0963		***			
		16. 10	·0944	17. 18	·01110			
		16. 12	·0957	17. 22	·00998			
		16. 14	·0934		***			
		16. 18	·0930	17. 29	·01098			
			***	17. 34	·01040			
		16. 42	·0945	17. 38	·01123			
		16. 45	·0920	17. 40	·01040			
		16. 58	·0986	17. 42	·01125			
		17. 8	·0944		***			
		17. 9	·0978	19. 10	·01310			
			***		***			

The indications are taken from the sheets of the Photographic Record, except where an atterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							On H. F. Magnet.	On V. F. Magnet.
h m	° ′ ″	Sep. 29 h m		Sep. 29 h m		h m	°	°
		17 21	·0943	20. 20	·01340			
		17. 30	·0998	22. 20	·01332			
				22. 25	·01350			
		17. 41	·0950	23. 0	·01350			
				23. 55	·01325			
		17. 42	·0994					
		17. 48	·0971					
		17. 58	·0997					
		18. 7	·0964					
		18. 12	·1004					
		18. 20	·0945					
		18. 30	·1003					
		18. 33	·0983					
		18. 35	·1004					
		19. 12	·0955					
		19. 17	·0996					
		19. 19	·0981					
		20. 30	·0968					
		20. 34	·0988					
		20. 36	·0941					
		20. 38	·0986					
		20. 42	·0950					
		20. 47	·0989					
		20. 52	·0954					
		20. 53	·0980					
		21. 0	·0964					
		22. 20	·0976					
		22. 28	·1003					
		22. 41	·0962					
		23. 0	·0990					
		23. 5	·0978					
		23. 8	·0984					
		23. 10	·0965					
		23. 12	·0978					
		23. 15	·0964					
		23. 42	·0988					
		23. 43	·0961					
		23. 44	·0981					
		23. 50	·0948					
		23. 55	·0988					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							On H. F. Magnet.	On V. F. Magnet.
Sep. 30 h m	° ′ ″	Sep. 30 h m		Sep. 30 h m		h m	°	°
0. 30	22. 26. 0	1. 1	·0991	1. 0	·01230	1. 40	59	·563 ·0
		1. 31	·1013			3. 40	63	·065 ·0
3. 0	19. 30	1. 35	·1000	3. 40	·00880	9. 40	63	·066 ·5
		1. 37	·1018	3. 53	·00830	21. 40	60	·061 ·0
12. 40	19. 30	1. 43	·0994	4. 0	·00852			
		1. 46	·1009	5. 20	·00875			
12. 56	21. 10	2. 19	·0993	5. 30	·00848			
13. 27	18. 0	2. 25	·1011	7. 0	·00890			
14. 45	15. 0	2. 29	·0993	9. 33	·00810			
15. 12	20. 0			11. 30	·00810			
15. 30	18. 30	2. 50	·1007	14. 0	·00842			
15. 41	21. 10	2. 57	·0995	16. 15	·00940			
15. 50	17. 10	3. 1	·1012	20. 45	·01370			
15. 57	19. 5	3. 3	·0997	22. 30	·01408			
		3. 6	·1014	23. 55	·01350			
20. 30:	11. 40	3. 12	·0993					
23. 55	19. 0							
		3. 40	·1007					
		3. 50	·0983					
		3. 55	·0998					
		4. 25	·0990					
		5. 16	·1007					
		5. 36	·0998					
		11. 22	·1006					
		12. 15	·0993					
		13. 35:	·1012					
		15. 16	·1003					
		18. 58	·1017					
		23. 55	·0988					
Oct. 1		Oct. 1		Oct. 1				
0. 43	22. 21. 50	0. 42	·0996	1. 0	·01275	1. 40	62	·063 ·0
1. 33	23. 30	2. 1	·1005	3. 0	·01170	3. 40	64	·067 ·0
2. 54	20. 0	2. 23:	·0990	4. 30	·01018	9. 40	63	·064 ·0
7. 20:	14. 0	3. 10	·1016	9. 18	·00830	21. 46	57	·061 ·0
8. 15	17. 20	8. 55	·0987	9. 50	·00796			
8. 56	5. 30	9. 23	·1026	9. 58	·00820			
9. 14	7. 0	9. 48	·0993	10. 16	·00730			
9. 28	22. 16. 40	10. 2	·1060	10. 39	·00747			
9. 52	21. 57. 10	10. 17	·1001	11. 52	·00830			
10. 10	22. 24. 0	10. 31	·1019	12. 1	·00855			
10. 17	15. 10	10. 53:	·0990	12. 19	·00840			
10. 30	17. 40	11. 10:	·1003	14. 30	·00982			
10. 55	5. 30	11. 47	·0990	17. 18	·01330			
11. 32	16. 50	12. 2	·1030	21. 53	·01290			
11. 52	9. 30	13. 50	·1009					
12. 0	13. 45	19. 36	·1022					
12. 20	10. 30	22. 48	·0994					
17. 35	20. 50	22. 55	·0944					
20. 43	12. 10	22. 58	·0959					
		23. 4	·0924					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 1		Oct. 1						
h m	° ′ ″	h m		h m		h m	°	°
22. 40	22. 15. 30	23. 5	·0960					
22. 44	8. 50	23. 8	·0938					
22. 52	20. 0		(†)					
	***	23. 24	·0941					
23. 17	6. 35	23. 27	·0978					
23. 25	22. 0	23. 38	·0942					
23. 32	10. 10	23. 39	·0977					
23. 55	19. 30	23. 43	·0957					
		23. 47	·0982					
		23. 54	·0970					
Oct. 2		Oct. 2		Oct. 2				
0. 15	22. 25. 30	0. 0	·1007	0. 13	·00840	1. 40	59 ·0	63 ·0
	***		***	2. 0	·00695	3. 40	60 ·0	63 ·5
1. 17	31. 0	0. 28	·0993	2. 10	·00670	9. 40	59 ·5	63 ·0
	***	0. 55	·0995	2. 19	·00670	21. 40	55 ·0	57 ·5
1. 50	27. 10	1. 8:	·1010	3. 5	·00655			
	***	1. 26	·1007		(†)			
2. 15	29. 20	1. 32	·1020	3. 41	·00662			
	***	1. 40	·1006	3. 58	·00655			
4. 4	32. 50	2. 2	·1027	4. 3	·00680			
	***	2. 57	·1009		***			
4. 15	27. 10	3. 11:	·1024	4. 25	·00682			
4. 35	34. 30	3. 25:	·1013		***			
5. 26	20. 0	3. 42:	·1036	5. 8	·00815			
	***	3. 53	·1016	5. 49	·00835			
5. 50	24. 0	4. 1	·1037	6. 10	·00805			
	***	4. 23	·1003	8. 12	·00790			
6. 20	17. 45	4. 52:	·1022	8. 17	·00755			
	***	5. 24	·0999	8. 22	·00787			
6. 40	21. 50	5. 32	·1014	8. 26	·00762			
6. 58	18. 10	5. 39	·1004	8. 58	·00470			
7. 3	20. 0	5. 45	·1018	9. 3	·00490			
7. 15	14. 0	5. 48	·1004	9. 12	·00290			
7. 24	18. 20	5. 58	·1009	9. 15	·00325			
7. 31	15. 20	6. 12	·0995	9. 18	·00310			
	***	6. 28	·1014	9. 24	·00720			
8. 6	16. 45	6. 40	·1003	9. 35	·00525			
8. 17	22. 10. 30		***	9. 48	·00460			
8. 34	21. 58. 50	7. 12	·1020	9. 54	·00530			
8. 55	22. 24. 30	7. 25	·1010	10. 2	·00438			
9. 3	13. 40	8. 14	·1030	10. 19	·00715			
9. 13	40. 10	8. 20	·1000	10. 42	·00315			
9. 30	6. 30		***	10. 52	·00430			
9. 38	22. 10	8. 40	·1075	10. 54	·00390			
9. 52	22. 15. 0	8. 59	·0991		***			
10. 16	21. 44. 0	9. 6	·1014	15. 0	·00910			
10. 33	56. 15	9. 18	·0926	21. 30	·01230			
10. 48	21. 44. 0	9 40	·0993	23. 51	·01030			
11. 15	22. 8. 45	10. 3	·0956					
	***		***					
11. 33	1. 30	10. 30	·1010					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 2		Oct. 2						
h m	° ′ ″	h m		h m		h m	°	°
13. 40	22. 21. 0	10. 43	·0918					
	***		***					
13. 58	15. 0	11. 24	·1013					
	***	11. 27	·0992					
14. 26	19. 30		***					
	***	11. 35	·1012					
15. 17	16. 10	11. 48	·0989					
15. 58	21. 40	11. 54	·1004					
16. 31	19. 20		***					
	***	15. 0	·1009					
23. 58	20. 10	15. 58	·0988					
		17. 49	·1019					
			***					
		20. 8	·1002					
		23. 58	·0990					
Oct. 3		Oct. 3		Oct. 3				
0. 49	22. 20. 50	0. 40	·0993	0. 55	·00840	1. 40	62 ·0	63 ·0
17. 0	16. 35		***	1. 32	·00742	3. 40	65 ·0	66 ·0
17. 32:	14. 0	18. 23	·1007	5. 4	·00805	9. 40	61 ·0	63 ·0
18. 0	15. 45		***	6. 0	·00808	21. 48	60 ·0	60 ·0
20. 31	13. 40	19. 20	·0998	7. 0	·00855			
	***		***	9. 30	·00765			
21. 33	12. 30	19. 47	·1001	15. 0	·01080			
23. 55	20. 20		***	18. 30	·01350			
		22. 9	·0979	21. 59	·01365			
		22. 48:	·0986	23. 55	·01290			
		23. 18:	·0978					
Oct. 4		Oct. 4		Oct. 4				
0. 54	22. 24. 0	0. 5	·0995	1. 11	·01165	1. 40	63 ·0	64 ·0
1. 16:	25. 20	0. 12	·0991	2. 12	·01040	3. 40	63 ·0	64 ·0
7. 48	17. 10		***	3. 37	·00780	9. 40	62 ·5	66 ·0
9. 5:	12. 20	4. 16	·1012	4. 24	·00802	23. 5	59 ·5	60 ·0
9. 39:	17. 10	5. 10	·1005	5. 22	·00773			
10. 33:	16. 30		***	7. 16	·00805			
10. 47:	22. 10	9. 12	·1022	8. 30	·00782			
11. 15:	18. 30	9. 33	·1011	10. 0	·00893			
11. 38:	19. 45	10. 8	·1019	13. 47	·01330			
12. 31	16. 20	10. 30	·1015	15. 1	·01305			
14. 53:	13. 30	10. 19	·1021	19. 30	·01327			
15. 18	15. 0	11. 5	·1013	21. 0	01290			
15. 33	14. 0	11. 33	·1022	23. 0	·01315			
20. 17	12. 20	12. 30	·1014	23. 22	·01300			
23. 15	22. 30		***					
		15. 7	·1018					
		15. 31	·1013					
			***					
		17. 49	·1021					
			***					
		20. 12	·1016					
		22. 5	·1004					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Oct. 4 h m		h m		h m	°	°
		23. 19	·1012					
		23. 49	·1007					
Oct. 5		Oct. 5		Oct. 5				
0. 0	22. 21. 20	0. 18	·1016	0. 15	·01245	9. 40	60 ·0	63 ·0
0. 55	24. 10	0. 51	·1012	4. 7	·00755	21. 40	56 ·0	57 ·0
2. 0:	19. 20	1. 5	·1005	5. 7	·00755			
2. 28	20. 40	1. 20	·1008	6. 0	·00723			
2. 45	18. 30	1. 50	·0997	7. 0	·00792			
4. 0	17. 50	2. 11	·1008	9. 26	·00732			
4. 42:	15. 40	3. 10	·1013	13. 17	·01010			
5. 2	17. 0	4. 30	·1008	14. 30	·01085			
6. 0:	14. 40	4. 52	·1018	16. 9	·01270			
7. 22:	15. 30	4. 57	·1013	17. 30	·01247			
8. 10:	6. 40	5. 0	·1017	22. 0	·01273			
8. 33	11. 30	5. 36	·1008	23. 55	·01262			
8. 48:	10. 30	6. 24	·1014					
11. 6	15. 50	7. 47	·1017					
12. 48	16. 40	7. 58	·1012					
13. 13:	20. 30	8. 11	·1026					
14. 30	15. 10	8. 36	·1021					
23. 0	23. 58	8. 28	·1027					
			***					
		13. 30	·1024					
		18. 0:	·1022					
		23. 55	·1017					
Oct. 6		Oct. 6		Oct. 6				
0. 59	22. 22. 10	0. 5	·1017	1. 50	·00962	1. 40	60 ·0	61 ·0
15. 54	15. 0	4. 17	·1019	2. 50	·00775	3. 40	65 ·0	67 ·0
16. 24:	18. 0	6. 0	·1012	3. 30	·00805	9. 40	63 ·0	64 ·0
17. 30	13. 30	9. 28	·1023	6. 0	·00765	21. 40	55 ·0	56 ·0
23. 50	20. 10	9. 45	·1020	7. 0	·00780			
		16. 0	·1027	8. 30	·00744			
		16. 45	·1036	15. 30	·01285			
		18. 21	·1028	17. 7	·01243			
		18. 45	·1029	21. 30	·01225			
		20. 45	·1026	23. 53	·01250			
		22. 40	·1009					
		23. 28	·1015					
		23. 50	·1008					
Oct. 7		Oct. 7		Oct. 7				
0. 52	22. 22. 30	0. 10	·1016	0. 0	·01245	1. 40	60 ·0	61 ·0
9. 0	14. 25	4. 35	·1016	3. 38	·00745	3. 40	64 ·0	65 ·0
9. 50:	9. 30	5. 10	·1021	5. 0	·00790	9. 40	63 ·0	64 ·0
10. 3:	10. 20		***	6. 30	·00813	21. 40	55 ·0	56 ·0
10. 21:	9. 10	8. 30	·1025	9. 30	·00738			
10. 33:	12. 0		***	15. 0	·00980			
11. 0:	10. 0	11. 30	·1034	18. 0	·01280			
11. 55:	14. 30	12. 10	·1022	21. 30	·01250			
12. 53	11. 50	12. 40	·1026	23. 55	·01272			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 7 h m	° ′ ″	Oct. 7 h m		h m		h m	°	°
23. 55	22. 19. 30	18. 40:	·1032					
		20. 30	·1028					
		23. 22	·1017					
		23. 45	·1012					
Oct. 8		Oct. 8		Oct. 8				
0. 30	22. 20. 10	0. 30	·1012	1. 0	·01183	1. 40	60 ·0	61 ·0
4. 48	16. 0	0. 50	·1018	3. 35	·00775	3. 40	65 ·0	66 ·0
5. 33	9. 20	2. 30	·1014	4. 30	·00810	9. 30	63 ·0	66 ·0
6. 30	14. 10	2. 50	·1019	5. 30	·00795	21. 40	53 ·0	53 ·0
23. 55	19. 10	4. 50	·1019	6. 43	·00800			
		5. 20:	1007	8. 30	·00740			
		5. 49	·1019	14. 27	·01275			
		8. 45	·1019	18. 30	·01185			
		15. 15	·1035	19. 59	·01197			
		18. 45	·1046	22. 22	·01165			
		22. 5	·1028	23. 30	·01190			
		23. 55	·1022					
Oct. 9		Oct. 9		Oct. 9				
0. 43	22. 21. 40	0. 45	·1021	0. 0	·01180	1. 40	55 ·0	57 ·0
9. 0	13. 30	1. 35	·1016	2. 14	·01020	3. 40	60 ·0	61 ·0
9. 55	11. 10	5. 15	·1027	5. 0	·00640	9. 40	53 ·0	54 ·0
10. 30	13. 10	7. 0	·1021	7. 0	·00738	21. 40	53 ·0	53 ·0
16. 38	14. 40	12. 0	·1023	9. 4	·00705			
17. 30	19. 20	12. 10	·1030	13. 30	·00775			
18. 31	18. 10	12. 47	·1025	18. 30	·00702			
19. 14	21. 15	17. 40	·1030	22. 1	·00728			
21. 15	15. 10	19. 10	·1013	23. 55	·00772			
22. 30	13. 30	20. 30	·1019					
23. 58	19. 10	21. 30	·1007					
		23. 55	·1006					
Oct. 10		Oct. 10		Oct. 10				
0. 30	22. 19. 50	0. 30	·1007	1. 0	·00713	1. 40	65 ·0	67 ·0
9. 28	15. 20	2. 40	·1010	2. 34	·00786	3. 40	69 ·0	70 ·0
10. 15	11. 0	2. 50	·1005	7. 0	·00795	9. 40	68 ·0	72 ·0
11. 55	10. 30	3. 12	·1012	9. 29	·00765	21. 45	63 ·0	67 ·0
12. 17	14. 0	5. 30	·1004	13. 30	·00845			
12. 45	13. 15	7. 15	·1013	13. 43	·00835			
13. 22:	18. 10	10. 0	·1015	14. 30	·00865			
13. 59:	13. 30	10. 32	·1006	15. 0	·00870			
14. 35:	21. 40	13. 10	·1019	19. 25	·01355			
15. 24	13. 10	14. 0	·1010	21. 0	·01315			
23. 43	24. 0	14. 55:	·1029	23. 42	·01365			
		16. 30	·1019					
		18. 30	·1026					
		18. 45	·1017					
		20. 25	·1023					
		21. 56	·0996					
		23. 0	·0992					
		23. 25	·1000					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 11		Oct. 11		Oct. 11				
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 24. 30	0. 0	·1000	0. 0	·01365	1. 40	65 ·0	67 ·5
1. 43	25. 30	0. 30	·0998	1. 31	·01330	3. 40	68 ·0	70 ·0
2. 13	22. 50	1. 20	·1006	5. 50	·00783	9. 40	66 ·0	67 ·0
4. 45	21. 30	2. 15:	·0990	6. 51	·00845	23. 7	62 ·0	63 ·5
5. 35:	16. 10	3. 9	·1003	9. 0	·00768			
8. 0:	16. 0	3. 25	·0996	14. 16	·00945			
10. 12	10. 40	4. 35	·1004	14. 39	·00952			
11. 23:	14. 0	4. 58	·0998	19. 18	·01322			
12. 40	9. 40	5. 25	·0999	22. 0	·01300			
14. 20:	17. 30	5. 45:	·0992	23. 16	·01320			
15. 0	13. 0	6. 30	·1004					
17. 43:	19. 15	7. 55	·1012					
21. 0:	12. 50	8. 40	·1009					
23. 17	21. 0	8. 48	·1015					
		9. 10	·1004 ***					
		10. 16	·1014					
		10. 40	·1007					
		11. 55	·1022					
		13. 40	·1011					
		14. 30	·1023					
		16. 45	·1019					
		17. 29	·1006					
		18. 48	·1018					
		23. 15	·1008					
Oct. 12		Oct. 12		Oct. 12				
0. 0	22. 21. 45	0. 0	·1008	0. 0	·01302	9. 40	69 ·0	71 ·0
2. 30	22. 40	3. 30	·1002	1. 11	·01190	21. 40	63 ·5	67 ·0
6. 0	15. 50	9. 15	·1012	3. 19	·00830			
9. 49	16. 0	10. 45	·1017	5. 57	·00835			
13. 0:	13. 10	11. 5	·1013	6. 43	·00855			
14. 13	15. 50	16. 15	·1023	9. 0	·00790			
16. 36:	13. 10	16. 25	·1019	17. 0	·00735			
17. 40	14. 35	16. 32	·1021	23. 54	·01323			
18. 30	13. 20	19. 45	·1022					
19. 55	14. 50		***					
	***	21. 58	·1019					
20. 50	12. 30	22. 15	·1008					
21. 48	11. 30	23. 2	·1008					
22. 2:	14. 0	23. 20	·1016					
22. 15	12. 10	23. 42	·1000					
23. 28:	20. 30	23. 55	·0996					
23. 53:	18. 20							
Oct. 13		Oct. 13		Oct. 13				
0. 28	22. 22. 0	0. 5	·1002	0. 17	·01186	1. 40	65 ·0	67 ·5
2. 0	23. 30	0. 17	·0996	5. 0	·00815	3. 40	66 ·0	67 ·0
9. 4	16. 30	1. 27	·1017	9. 27	·00745	9. 40	65 ·0	66 ·0
10. 12:	12. 0	1. 33	·1014	13. 38	·00895	21. 45	64 ·0	68 ·0
11. 0	14. 10	3. 8	·1020	14. 14	·00900			
15. 36	12. 50	3. 35	·1016	16. 0	·00993			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 13		Oct. 13		Oct. 13				
h m	° ′ ″	h m		h m		h m	°	°
16. 11:	22. 15. 10	4. 7	·1024	19. 30	·01155			
16. 50	13. 50	5. 0	·1019	22. 16	·01285			
	***	5. 53	·1026	23. 55	·01205			
22. 13	15. 40	6. 10	·1022					
23. 58	23. 10	9. 50	·1026					
		10. 21	·1037					
		11. 19	·1023 ***					
		14. 30	·1025					
		15. 15	·1020					
		16. 0	·1030 ***					
		20. 0	·1028					
		22. 25	·1010					
		23. 10	·1017					
		23. 30	·1013					
Oct. 14		Oct. 14		Oct. 14				
0. 50	22. 24. 10	0. 45	·1004	1. 36	·01152	1. 40	63 ·0	65 ·0
1. 16	27. 15	1. 12	·1023	3. 30	·01062	3. 40	65 ·0	67 ·0
1. 42:	22. 25	1. 30	·1009	3. 54	·01064	9. 40	63 ·0	67 ·0
2. 38:	26. 15	2. 36	·1025	4. 13	·01045	21. 40	60 ·0	61 ·0
3. 30:	21. 50	3. 16	·1013	5. 0	·01040			
4. 47:	9. 40	3. 47	·1025	8. 0	·00935			
6. 20	17. 10	4. 5	·1006	13. 0	·01318			
11. 45	15. 10	5. 8	·1022	14. 0	·01285			
12. 57:	12. 40	5. 45	·1010	18. 30	·01284			
14. 2	15. 15	7. 45	·1029	20. 30	·01313			
19. 55	15. 0	10. 35	·1029	23. 55	·01200			
21. 2	12. 40	10. 48	·1033					
23. 58	20. 5	11. 0	·1030					
		12. 22	·1034					
		12. 44:	·1043					
		13. 40	·1033					
		14. 50	·1029					
		18. 0:	·1033					
		19. 45	·1028					
		22. 24	·1013					
		23. 55	·1012					
Oct. 15		Oct. 15		Oct. 15				
0. 54	22. 21. 30	0. 5	·1012	0. 0	·01190	1. 40	63 ·0	64 ·0
9. 0	18. 20	6. 25	·1034	4. 30	·00825	3. 40	64 ·0	64 ·0
11. 2	17. 0	11. 30	·1037	6. 24	·00878	9. 40	60 ·0	65 ·0
13. 48	17. 50	15. 50	·1033	7. 30	·00885	21. 40	51 ·0	52 ·0
15. 30	16. 50	18. 15	·1048	12. 54	·01285			
17. 5	19. 10	21. 0	·1048	21. 55	·01295			
19. 52	16. 45	23. 55	·1038					
20. 45:	13. 50							
23. 54	19. 50							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Readings of Thermometers. Göttingen Mean Solar Time.	Of H. F. Magnet.	Of V. F. Magnet.
Oct. 16		Oct. 16		Oct. 16				
h m	° ′ ″	h m		h m		h m	°	°
0. 43	22. 19. 55	0. 15	·1037	0. 21	·01085	1. 40	56 ·0	58 ·0
1. 15	22. 50	0. 45	·1037	1. 53	·00902	3. 40	61 ·0	62 ·0
	***	1. 10	·1038	3. 6	·00522	9. 46	58 ·0	59 ·0
2. 26	20. 15	1. 35	·1034	6. 47	·00990	21. 40	49 ·0	50 ·0
9. 28	16. 50	5. 0	·1031	9. 0	·00538			
10. 30	13. 30	7. 4	·1039	15. 7	·01126			
12. 6	16. 0	7. 40	·1032	20. 0	·01045			
12. 42:	14. 30	8. 7	·1038	21. 0	·01020			
13. 7	16. 0	8. 40	·1036	23. 0	·01080			
19. 35	15. 35	9. 0	·1028	23. 55	·01065			
21. 12:	13. 30	10. 30	·1043					
23. 55	18. 0	18. 0:	·1049					
		20. 30	·1051					
		22. 10	·1046					
		23. 30	·1035					
Oct. 17		Oct. 17		Oct. 17				
0. 5	22. 19. 0	0. 15	·1030	0. 20	·01050	1. 40	54 ·0	56 ·0
11. 26	14. 40	0. 40	·1039	2. 0	·00865	3. 40	57 ·0	59 ·0
11. 43:	9. 30	1. 15	·1037	3. 58	·00480	9. 40	57 ·0	58 ·5
12. 48	15. 0	4. 30	·1037	6. 30	·00565	21. 40	50 ·5	55 ·2
13. 28:	12. 20	5. 4	·1044	9. 35	·00485			
14. 33	15. 40	5. 58	·1040	10. 30	·00500			
15. 22	16. 10	6. 35	·1045	11. 24	·00555			
16. 10	14. 45	6. 52	·1038	11. 40	·00550			
20. 35	12. 50	9. 47	·1043	13. 30	·00665			
23. 50	20. 10	10. 1:	·1046	17. 12	·01092			
		10. 30	·1040	21. 0	·01045			
		11. 8	·1038	23. 55	·01015			
		11. 25	·1058					
		12. 15	·1037					
		13. 8	·1046					
		13. 40	·1042					
		16. 30	·1046					
		19. 0:	·1054					
		22. 20	·1046					
		22. 42	·1042					
		23. 55	·1035					
Oct. 18		Oct. 18		Oct. 18				
0. 24	22. 21. 50	0. 30	·1039	0. 30	·00982	1. 40	55 ·0	56 ·0
3. 57	26. 0	2. 6	·1043	3. 3	·00545	3. 40	61 ·0	63 ·0
6. 58	17. 40	2. 31	·1038	5. 0	·00625	9. 40	62 ·0	66 ·0
7. 20	19. 10	3. 19	·1043	6. 42	·00708	22. 54	61 ·0	62 ·0
8. 14	4. 0	5. 4	·1031	8. 0	·00695			
8. 39	17. 25	5. 28	·1035	8. 12	·00700			
8. 53	2. 20	6. 33	·1027	8. 42	·00632			
9. 2	7. 40	7. 5	·1033	8. 52	·00650			
9. 13	4. 15	7. 39	·1021	12. 39	·00675			
9. 50:	9. 50	8. 0	·1032	13. 7	·00690			
10. 45:	2. 25	8. 19	·1065	22. 32	·00610			
12. 12:	7. 50	8. 42	·1008	23. 19	·00620			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Readings of Thermometers. Göttingen Mean Solar Time.	Of H. F. Magnet.	Of V. F. Magnet.
Oct. 18		Oct. 18						
h m	° ′ ″	h m		h m		h m	°	°
12. 55	22. 5. 15	8. 53	·1030					
13. 17:	9. 0	9. 9	·1014					
13. 47	4. 35	9. 53	·1011					
15. 57	17. 5	10. 19	·1022					
16. 22	14. 30		***					
23. 15	17. 0	12. 14	·1026					
		12. 49	·1017					
		13. 33	·1028					
		14. 20	·1023					
		16. 8	·1029					
		16. 18	·1025					
		19. 59	·1039					
			***					
		23. 12	·1020					
		23. 55	·1016					
		Oct. 19		Oct. 19				
		0. 3	·1014	0. 0	·00635	9. 40	64 ·0	65 ·0
		0. 26	·1026	6. 35	·00806	21. 40	63 ·0	64 ·0
		0. 58	·1012	6. 57	·00888			
		1. 31	·1019	7. 14	·00798			
			***	10. 9	·00715			
		3. 15	·1029	14. 0	·00688			
		3. 41	·1024	20. 30	·00965			
		4. 17	·1035	23. 55	·00992			
			***					
		4. 32	·1026					
			***					
		4. 51	·1030					
		5. 3	·1014					
			***					
		6. 33	·1052					
		6. 57	·1006					
		7. 22	·1022					
		8. 47	·1021					
		9. 0	·1044					
		9. 12	·1032					
		9. 22	·1052					
		9. 43	·1032					
		9. 58	·1036					
		10. 10	·1022					
			***					
		11. 55	·1030					
			***					
		16. 42	·1018					
			***					
		19. 10	·1029					
		21. 52	·1019					
		23. 30	·1008					
		23. 40	·1006					
		23. 52	·1002					

Oct. 19. The strap attached to the suspension skein broke, and the magnet fell through a space of about an inch.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 20		Oct. 20		Oct. 20				
h m	° ′ ″	h m		h m		h m	°	°
2. 43	22. 20. 0	0. 20	·1009	1. 0	·00954	1. 40	64 ·0	65 ·0
5. 42	18. 30	1. 20	·1020	3. 46	·00752	3. 40	66 ·0	67 ·0
6. 22:	11. 10	2. 35	·1008	3. 47	·00772	9. 40	65 ·0	69 ·0
8. 5	19. 10		***	4. 49	·00750	21. 40	61 ·0	62 ·0
9. 12	11. 10	3. 15	·1022	6. 30	·00810			
9. 52	22. 18. 0		***	10. 17	·00770			
10. 58	21. 56. 0	5. 12	·1032	10. 43	·00795			
11. 55	22. 11. 0	6. 3	·1020	10. 58	·00782			
12. 50	21. 56. 15	7. 32	·1032		***			
13. 11	22. 7. 30	7. 46	·1024	12. 32	·00745			
13. 49	21. 57. 10	8. 1	·1022	12. 57	·00740			
14. 18	22. 7. 30	8. 35	·1028	13. 17	·00718			
15. 5	21. 54. 0	9. 0	·1023	13. 43	·00632			
15. 25	22. 1. 30	9. 19	·1034		***			
15. 42	21. 53. 55	9. 52	·1039	15. 17	·00695			
16. 0:	59. 50	10. 22	·1018	15. 32	·00665			
16. 20:	21. 57. 30		***	15. 59	·00692			
16. 42	22. 7. 30	10. 51	·1032	16. 8	·00683			
16. 56	6. 0	10. 57	·1019	17. 12	·00732			
17. 12:	11. 30	11. 8	·1026	17. 30	·00975			
17. 36:	7. 40	11. 34	·1010	23. 55	·01160			
18. 34	11. 30	12. 19	·1028					
18. 48:	15. 25	12. 27	·1018					
19. 28	11. 30	12. 32	·1020					
22. 23	16. 0	12. 37	·1038					
		12. 42	·1012					
		12. 43	·1020					
		13. 5	·0992					
		13. 30	·1024					
		13. 41	·0991					
			***					
		14. 17	·1012					
			***					
		14. 48	·0991					
		15. 15	·1034					
			***					
		15. 36	·1007					
		15. 45	·1009					
		16. 5	·0998					
		17. 0	·1039					
		17. 26	·1010					
		18. 30	·1000					
		18. 10	·1006					
		18. 58	·0999					
		19. 23:	·1006					
		20. 12:	·0995					
		21. 25	·1004					
		21. 53	0999					
		23. 55	·1011					
Oct. 21		Oct. 21		Oct. 21				
2. 11	22. 26. 45	0. 45	·1019	1. 0	·01153	1. 40	63 ·0	64 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 21		Oct. 21		Oct. 21				
h m	° ′ ″	h m		h m		h m	°	°
7. 40	22. 23. 40	2. 6	·1023	3. 30	·01047	3. 40	63 ·0	64 ·0
	***	5. 53	·1028	5. 16	·00875	9. 40	65 ·0	66 ·0
14. 0	22. 0		***	8. 0	·00765	21. 40	61 ·5	66 ·0
21. 57	21. 10	6. 8	·1020	14. 30	·00850			
	***	6. 30	·1026	23. 55	·01340			
23. 55	25. 0		***					
		12. 0	·1031					
		12. 45	·1036					
		13. 55	·1031					
		14. 30	·1035					
		20. 5	·1042					
		21. 15	·1029					
		23. 20	·1012					
		23. 55	·1017					
Oct. 22		Oct. 22		Oct. 22				
0. 42	22. 25. 45	0. 45	·1016	0. 51	·01355	1. 40	61 ·0	62 ·0
3. 19	26. 50		***	4. 8	·01265	3. 40	62 ·0	63 ·5
3. 47	24. 0	4. 30	·1030	5. 5	·01212	9. 40	61 ·0	62 ·0
	***	4. 44	·1016	6. 14	·01200	21. 40	58 ·0	59 ·0
4. 25	28. 0	4. 50	·1027	8. 30	·01168			
	***	4. 52	·1010	16. 30	·01335			
4. 53	26. 30	4. 54	·1020	20. 10	·01315			
9 35	15. 50		***	23. 55	·01280			
9. 48	19. 0	6. 10	·1034					
11. 10	20. 35		***					
11. 42:	18. 0	8. 45	·1038					
12. 22	19. 50	8. 51	·1041					
12. 33	17. 10	9. 27	·1031					
12. 58	18. 30	9. 39	·1045					
13. 18	17. 30	9. 58	·1038					
14. 0	23. 0	10. 23	·1038					
14. 35	20. 30	11. 18:	·1044					
16. 36	23. 10	11. 41	·1035					
17. 30	20. 40	11. 48	·1039					
18. 2	22. 10	12. 8:	·1032					
19. 3	19. 30	12. 41	·1043					
23. 58	30. 30	13. 46	·1032					
		14. 19	·1037					
		15. 46	·1033					
		18. 52	·1039					
		19. 6	·1035					
		19. 14	·1038					
		22. 15	·1024					
		22. 51	·1012					
		23. 25	·1012					
		23. 55	·1022					
Oct. 23		Oct. 23		Oct. 23				
0. 48	22. 26. 30	0. 5	·1023	1. 0	·01256	1. 40	59 ·0	61 ·0
	***	0. 15	·1020	4. 0	·01061	3. 40	64 ·0	64 ·0
2. 58	26. 0	0. 20	·1013	6. 33	·00740	9. 40	63 ·0	65 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 23		Oct. 23		Oct. 23				
h m	° ′ ″	h m		h m		h m	°	°
3. 10	22. 17. 35	0. 58	·1011	10. 0	·00695	21. 40	59 ·0	64 ·0
	***		***					
3. 17	22. 50			14. 1	·00698			
3. 43	22. 45	2. 14	·1037	16. 10	·00722			
4. 8	21. 10	2. 22	·1030	17. 0	·00733			
4. 43	17. 10	2. 38	·1040	17. 36	·00792			
5. 22	18. 30		***	23. 48	·01150			
5. 55	15. 30	3. 0	·0996					
6. 27	17. 0	3. 3	·1012					
7. 30	13. 10	3. 40	·1023					
8. 45	15. 0	4. 28	·1024					
10. 7	5. 30		***					
13. 25	15. 15	5. 10	·1022					
14. 3:	20. 20	5. 29	·1013					
15. 32	10. 30	6. 3	·1030					
16. 57	21. 40	6. 40	·1017					
17. 15:	19. 50		***					
17. 36	24. 55	9. 21	·1030					
18. 13:	17. 10	9. 51	·1039					
19. 15	22. 35	9. 58	·1034					
	***		***					
23. 48	24. 10	13. 41	·1037					
		14. 20	·1062					
		14. 51	·1046					
		14. 58	·1052					
		15. 27	·1040					
			***					
		16. 14	·1056					
		17. 7	·1023					
		18. 5	·1039					
		18. 27	·1029					
			***					
		19. 42	·1038					
			***					
		20. 50	·1019					
		21. 20	·1017					
			***					
		23. 30	·1005					
Oct. 24		Oct. 24		Oct. 24				
0. 0	22. 27. 10	0. 5	·1018	0. 0	·01170	1. 40	61 ·0	66 ·0
	***		***	1. 0	·01150	3. 40	63 ·5	67 ·0
1. 42	25. 10	0. 29	·1004	4. 27	·00810	9. 40	64 ·0	67 ·0
4. 35	3. 40		***	7. 45	·00770	21. 40	56 ·0	56 ·0
5. 51	22. 17. 25	0. 40	·1013	8. 17	·00735			
7. 35	21. 59. 30	0. 50	·1004	14. 0	·00755			
7. 54	22. 9. 25		***	18. 47	·01272			
8. 17	21. 57. 0	2. 57	·1029	23. 23	·01250			
11. 32:	22. 12. 50	3. 52	·1007					
12. 28:	18. 0	4. 20	·1010					
14. 2	14. 10	4. 49	·1029					
15. 12:	19. 0	4. 54	·1018					
17. 50	16. 0	5. 2	·1028					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 24		Oct. 24						
h m	° ′ ″	h m		h m		h m	°	°
19. 15	22. 19. 40	5. 20	·1022					
	***	6. 14	·1024					
20. 48	16. 30	6. 45	·1026					
23. 23	23. 10	7. 7	·1019					
		7. 15	·1014					
		7. 35	·1029					
		7. 49	·1048					
		8. 16	·1014					
		8. 44	·1048					
		9. 58	·1022					
		11. 57	·1032					
		12. 15:	·1042					
		12. 50	·1030					
		13. 53	·1040					
		14. 40	·1024					
		16. 30	·1034					
		17. 50	·1037					
		18. 28	·1032					
			***					
		20. 32	·1034					
		20. 36	·1026					
		20. 40	·1033					
			***					
		21. 53	·1020					
		22. 25	·1011					
		23. 25	·1022					
Oct. 25		Oct. 25		Oct. 25				
0. 0	22. 23. 30	0. 0	·1029	0. 6	·01278	1. 40	59 ·0	60 ·0
0. 37:	25. 30	0. 35	·1024	2. 0	·01243	3. 40	61 ·0	62 ·0
1. 0	22. 0	0. 42	·1028	6. 22	·00755	9. 40	63 ·0	63 ·0
3. 55	19. 0	0. 50	·1023	12. 0	·00665	23. 2	57 ·0	59 ·0
4. 39:	13. 20	3. 30	·1035	15. 0	·00720			
4. 58	15. 30	4. 14	·1020	23. 18	·01072			
6. 0	16. 10	4. 39	·1035					
6. 26	1. 45	5. 50	·1030					
7. 0	13. 30	6. 14	·1016					
7. 57	8. 5	6. 38	·1048					
8. 42	15. 0	7. 5	·1037					
8. 50	10. 35	7. 42	·1029					
9. 2	12. 50	8. 5	·1047					
9. 18	8. 30	8. 30	·1030					
11. 2	15. 30	8. 41	·1050					
23. 15	18. 10	8. 50	·1038					
		9. 5	·1046					
		9. 17	·1036					
		10. 27	·1029					
		10. 59	·1034					
		16. 22	·1040					
		20. 0	·1038					
		23. 2	·1022					
		23. 55	·1027					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 26		Oct. 26		Oct. 26				
h m	° ′ ″	h m		h m		h m	°	°
0. 2	22. 20. 20	0. 15	·1029	0. 0	·01072	11. 40	58 ·0	59 ·0
4. 18	18. 30	4. 15	·1028	3. 0	·01000	21. 40	55 ·0	57 ·0
4. 25:	14. 10	4. 30	·1023	7. 47	·00668			
5. 23	17. 25	5. 0	·1028	10. 30	·00725			
10. 1	15. 0	6. 17	·1035	17. 8	·01215			
10. 54:	10. 30	10. 18	·1042	18. 36	·01210			
14. 9	15. 20	10. 35	·1045	19. 6	·01195			
14. 38:	21. 15	10. 59	·1037	20. 30	·01228			
15. 28	15. 10	11. 46	·1039	23. 55	·01220			
17. 58	15. 30	12. 32	·1034					
18. 43:	21. 50	14. 8	·1038					
19. 21:	15. 0	14. 29	·1046					
19. 49	17. 10	15. 6	·1040					
20. 30	16. 0	16. 10	·1042					
23. 58	25. 0	17. 30	·1046					
		18. 15	·1037					
		18. 44	·1046					
		19. 12	·1042					
		20. 30	·1042					
		21. 43	·1025					
		23. 0	·1019					
		23. 55	·1021					
Oct. 27		Oct. 27		Oct. 27				
0. 25	22. 26. 0	0. 30	·1026	0. 44	·01200	1. 40	60 ·0	61 ·0
1. 4:	23. 15	0. 50:	·1022	1. 57	·01092	3. 40	60 ·0	61 ·0
1. 22:	25. 50	1. 16	·1025	3. 33	·00740	9. 40	63 ·0	67 ·0
7. 56	15. 0	1. 44	·1017	6. 0	·00792	21. 40	55 ·0	57 ·0
20. 21	14. 0	5. 0	·1022	9. 25	·00700			
23. 55	20. 0	5. 40	·1077	13. 0	·00758			
		6. 50	·1025	18. 13	·01265			
		9. 25	·1027	23. 55	·01245			
		11. 30	·1026					
		14. 0	·1030					
		19. 0	·1035					
		20. 0	·1034					
		21. 45	·1020					
		23. 20	·1015					
		23. 27	·1018					
		23. 50	·1015					
Oct. 28		Oct. 28		Oct. 28				
0. 32	22. 22. 30	0. 30	·1015	1. 0	·01250	1. 40	58 ·0	59 ·0
3. 16	19. 0	1. 30	·1024	2. 30	·01140	3. 40	61 ·0	62 ·0
3. 20	23. 40	3. 10	·1028	5. 59	·00690	9. 40	59 ·0	64 ·0
4. 30	19. 0	3. 18	·1044	10. 11	·00630	21. 40	54 ·0	54 ·0
9. 18	22. 16. 50		***	11. 48	·00708			
9. 40:	21. 51. 40	4. 5	·1032	12. 3	·00620			
9. 55:	22. 0. 0		***	13. 20	·00725			
10. 8:	21. 57. 30	7. 36	·1042	13. 44	·00675			
10. 38	22. 5. 0	7. 46	·1036	15. 18	·00715			
10. 55	1. 15	8. 11	·1042	15. 38	·00658			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 28		Oct. 28		Oct. 28				
h m	° ′ ″	h m		h m		h m	°	°
11. 32	22. 2. 0	8. 55	·1038	16. 11	·00718			
11. 54	14. 0	9. 13	·1022	16. 33	·00650			
12. 17	3. 50	9. 21	·1038	17. 7	·00632			
13. 32	23. 0	9. 26	·1016	17. 30	·00785			
14. 30	12. 30	9. 46	·1060	17. 44	·00845			
15. 22	27. 0	10. 5	·1026	18. 0	·00795			
15. 56	12. 30	10. 11	·1031	18. 9	·00840			
16. 28	45. 45	10. 21	·1031	18. 27	·00800			
17. 9	17. 10	11. 20	·0998	18. 44	·00900			
17. 38	43. 0	11. 51	·1035	18. 52	·00890			
	(†)	12. 21	·1002	19. 5	·00960			
17. 56	44. 30	13. 30	·1024	19. 18	·00930			
18. 5	31. 15	13. 52	·1014	20. 20	·01127			
18. 16	44. 15	14. 5	·1025	23. 55	·01227			
18. 27	33. 0	14. 25	·1022					
18. 42	45. 25	14. 41	·1034					
	(†)	14. 56	·1018					
19. 30	41. 40	15. 16	·1064					
20. 38:	19. 10	15. 20	·1059					
	***	15. 22	·1066					
23. 38	21. 30	15. 31	·1057					
		16. 17	·1100					
		16. 41	·1019					
		16. 49	·1015					
		17. 8	·0982					
		17. 18	·1014					
		17. 34	·0941					
		17. 44	·0977					
		17. 56	·0956					
			***					
		18. 16	·1006					
			***					
		18. 24	·0993					
		18. 27	·1003					
			***					
		18. 38	·0966					
		18. 45	·0989					
		18. 54	·0960					
		19. 6	·0983					
		19. 20	·0953					
			***					
		19. 51	·0977					
		20. 20	·0972					
		20. 32	·0986					
		20. 41	·0977					
			***					
		23. 10	·0987					
Oct. 29		Oct. 29		Oct. 29				
0. 0	22. 28. 30	0. 0	·0977	0. 0	·01235	1. 40	56 ·0	57 ·5
0. 20	26. 20		***	3. 0	·01232	3. 40	57 ·0	59 ·0
4. 30	22. 20	3. 10	·0981	8. 0	·00940	9. 40	55 ·0	57 ·0
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 29		Oct. 29		Oct. 29				
h m	° ′ ″	h m		h m		h m	°	°
6. 28	22. 24. 0	3. 20	·1015	9. 29	·01010	21. 40	50 ·0	51 ·0
8. 18	25. 0	3. 32	·1019	10. 3	·00985			
8. 50	20. 20	3. 49	·1011	11. 2	·01062			
9. 18	22. 30		***	14. 8	·01165			
9. 45	13. 0	4. 30	·1012	14. 54	·01110			
9. 50	17. 10	4. 35	·1022	20. 0	·01150			
10. 8	13. 30		***	23. 54	·01170			
10. 16	17. 40	6. 51	·1018					
10. 38	12. 30	6. 58	·1033					
10. 57	14. 45	7. 2	·1017					
11. 20	8. 45		***					
12. 30	18. 20	7. 40	·1018					
13. 3	17. 0	7. 44	·1025					
13. 28	22. 10	8. 5	·1014					
14. 12	20. 30	8. 20	·1016					
14. 30	25. 30	8. 34	·1000					
15. 4:	24. 10	8. 55	·0995					
15. 22:	25. 35	9. 29	·1007					
15. 40	22. 10	9. 53	·1035					
16. 30	20. 40	10. 10	·1014					
23. 55	27. 30	10. 13	·1016					
		10. 30:	·1000					
		11. 12:	·1018					
		11. 21	·1004					
		12. 23	·1006					
		12. 30	·1014					
		12. 40	·1006					
			***					
		13. 55	·1006					
		14. 22	·1024					
		14. 40	·1012					
		14. 50	·1012					
			***					
		16. 35	·1027					
		17. 20	·1022					
			***					
		20. 52	·1024					
		22. 11	·1006					
		22. 42	·1011					
		23. 45	·1009					
Oct. 30		Oct. 30		Oct. 30				
0. 10	22. 27. 50	0. 30	·1008	0. 15	·01170	1. 40	54 ·0	55 ·0
4. 30	22. 30		***	2. 8	·00992	3. 40	58 ·0	59 ·0
21. 0	20. 0	1. 10	·1009	4. 0	·00600	9. 40	54 ·5	59 ·0
23. 55	24. 30	1. 32	·1006	6. 7	·00605	21. 40	50 ·0	52 ·0
		3. 22	·1020	9. 0	·00540			
		3. 58	·1011	13. 7	·00755			
		11. 11	·1034	14. 30	·00805			
		18. 0	·1036	16. 32	·00942			
		20. 0	·1034	20. 45	·01156			
		23. 40	·1024	22. 30	·01110			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 31		Oct. 31		Oct. 30				
h m	° ′ ″	h m		h m		h m	°	°
0. 38	22. 24. 30	0. 45	·1022	23. 55	·01145			
8. 55	21. 0	1. 22	·1024					
9. 30	15. 20	1. 30	·1019					
11. 30	21. 0	1. 42	·1024					
23. 50	25. 0	4. 45	·1026					
		5. 0	·1023					
		7. 30	·1026					
		8. 10	·1030					
		8. 50	·1027					
		9. 25	·1036					
		9. 52	·1028					
		10. 30	·1035					
		10. 50	·1030					
		16. 10	·1039					
		16. 15	·1043					
		19. 35	·1052					
		20. 35	·1040					
		22. 50	·1036					
		23. 30	·1030					
Nov. 1		Nov. 1		Nov. 1				
0. 38	22. 26. 50	0. 40	·1033	1. 0	·01025	1. 40	53 ·0	54 ·0
12. 0	20. 30	12. 0	·1038	2. 7	·00900	3. 40	58 ·0	60 ·0
13. 16:	19. 30	12. 9	·1044	3. 35	·00548	9. 40	55 ·0	57 ·0
14. 21	21. 0	12. 47	·1038	4. 0	·00532	22. 40	49 ·0	53 ·5
17. 36	19. 10	17. 23	·1053	5. 23	·00570			
17. 55	21. 0	20. 57	·1042	6. 30	·00605			
20. 33	19. 10	21. 25	·1046	10. 0	·00545			
23. 30	25. 10	21. 55	·1038	15. 20	·01082			
		23. 36	·1036	19. 0	·01025			
				20. 48	·01087			
				23. 36	·01046			
Nov. 2		Nov. 2		Nov. 2				
0. 0	22. 26. 0	0. 0	·1037	0. 0	·01047	7. 30	49 ·0	56 ·0
	***	0. 46	·1040	2. 7	·00972	21. 40	44 ·0	46 ·0
3. 50	23. 40	1. 6	·1036	5. 0	·00805			
8. 13	21. 0	2. 11	·1045	7. 30	·00713			
9. 40	21. 50	2. 48	·1041	11. 12	·00715			
21. 30	20. 30		***	14. 55	·01003			
23. 45	28. 30	4. 0	·1048	15. 7	·00992			
		9. 30:	·1056	15. 30	·01015			
		10. 0	·1050	23. 56	·01078			
		19. 0	·1056					
		21. 30	·1050					
		23. 58	·1055					
Nov. 3		Nov. 3		Nov. 3				
1. 10	22. 27. 20	0. 28	·1046	1. 13	·01050	1. 40	47 ·0	49 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 3		Nov. 3		Nov. 3		h m	°	°
h m	° ′ ″	h m		h m				
4. 0	22. 26. 0	0. 52	·1050	4. 43	·00510	3. 40	50 ·0	51 ·0
5. 14:	19. 10	2. 0	·1045	5. 28	·00525	9. 40	49 ·0	50 ·0
6. 10:	21. 40	4. 50	·1036	6. 10	·00510	21. 45	44 ·0	49 ·0
6. 42:	20. 40	5. 53	·1052	10. 0	·00500			
7. 18	22. 10	6. 10	·1043	16. 18	·01030			
7. 38	19. 30	6. 38:	·1050	23. 54	·01045			
8. 54	21. 0	7. 30	·1038					
11. 52:	16. 0	7. 54	·1044					
15. 30	22. 10	8. 18	·1036					
18. 2	21. 50	8. 45	·1050					
18. 28:	23. 0	11. 39	·1051					
19. 13	20. 20	12. 0:	·1060					
23. 50	26. 40	13. 15	·1053					
		18. 43:	·1061					
		23. 57	·1045					
Nov. 4		Nov. 4		Nov. 4				
0. 0	22. 27. 0	0. 0	·1044	0. 11	·01050	1. 40	49 ·0	50 ·0
1. 17	26. 30	2. 30	·1037	1. 47	·00900	3. 40	53 ·0	54 ·0
1. 48	28. 5	12. 10:	·1059	3. 34	·00518	9. 40	49 ·0	54 ·0
3. 53:	20. 0	13. 12	·1050	4. 12	·00547	21. 46	40 ·0	42 ·0
4. 54:	22. 40	18. 40:	·1065	5. 30	·00522			
5. 59:	20. 30	20. 23:	·1058	6. 30	·00525			
11. 0	19. 30	20. 50	·1062	9. 0	·00480			
11. 15:	22. 10	23. 55	·1059	15. 30	·01040			
11. 58:	16. 15			20. 33	·00985			
19. 12	21. 10			23. 54	·01040			
20. 30	24. 30							
23. 55	26. 30							
Nov. 5		Nov. 5		Nov. 5				
0. 35	22. 26. 30	0. 35	·1055	0. 30	·01055	1. 40	44 ·0	45 ·0
12. 52	19. 40	5. 0:	·1040	4. 30	·00942	3. 40	48 ·0	50 ·0
13. 35	22. 50	7. 40	·1050	5. 7	·00500	9. 40	49 ·0	50 ·0
14. 28	19. 45	10. 0	·1043	7. 1	·00553	21. 40	49 ·0	52 ·5
23. 55	24. 40	11. 30	·1050	14. 0	·00502			
		12. 30	·1047	21. 49	·00525			
		13. 33	·1053	23. 56	·00565			
		23. 55	·1036					
Nov. 6		Nov. 6		Nov. 6				
0. 20	22. 26. 10	0. 23	·1036	0. 22	·00575	1. 40	53 ·0	54 ·8
4. 30	20. 20	19. 29	·1049	4. 0	·00720	3. 40	56 ·0	56 ·0
21. 0	18. 10	23. 53	·1034	10. 30	·00687	9. 40	53 ·0	53 ·0
21. 55	17. 50			14. 30	·00840	21. 40	47 ·0	48 ·0
23. 55	23 ·10			18. 48	·01250			
				23. 52	·01252			
Nov. 7		Nov. 7		Nov. 7				
0. 50	22. 24. 40	0. 52	·1035	1. 0	·01210	1. 40	50 ·0	50 ·8
10. 0	19. 50	2. 13	·1044	2. 51	·01082	3. 40	55 ·0	57 ·0
11. 28:	18. 0	7. 47	·1034	5. 28	·00690	9. 40	53 ·0	58 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 7		Nov. 7		Nov. 7		h m	°	°
h m	° ′ ″	h m		h m				
14. 12:	22. 21. 10	19. 14	·1053	6. 30	·00738	21. 40	49 ·0	54 ·0
15. 0:	19. 0	23. 55	·1033	10. 30	·00765			
15. 53	21. 0			14. 45	·00892			
17. 30	19. 35			18. 35	·01250			
18. 49:	21. 30			19. 30	·01250			
19. 30	20. 0			20. 30	·01275			
23. 59	26. 0			23. 55	·01245			
Nov. 8		Nov. 8		Nov. 8				
0. 28	22. 26. 30	0. 35	·1032	0. 42	·01243	1. 40	52 ·0	53 ·5
6. 50	19. 30	17. 48	·1053	2. 30	·01045	3. 40	56 ·0	57 ·8
17. 35	21. 45	23. 57	·1034	4. 10	·00743	9. 40	54 ·0	55 ·0
22. 30	19. 20			5. 0	·00730	22. 40	49 ·5	55 ·0
				6. 22	·00755			
				10. 2	·00720			
				14. 47	·00962			
				18. 38	·01265			
				19. 47	·01250			
				21. 0	·01270			
				22. 23	·01260			
Nov. 9		Nov. 9		Nov. 9				
0. 0	22. 23. 0	0. 0	·1034	0. 0	·01227	7. 33	50 ·0	56 ·0
1. 30	25. 10	12. 0	·1053	2. 30	·01263	21. 40	49 ·0	53 ·5
13. 50	20. 30	13. 54	·1048	9. 0	·01022			
15. 50	16. 30	14. 45	·1055	15. 30	·01002			
	***	16. 1	·1051	18. 30	·01000			
20. 15	19. 30	17. 5	·1059	20. 30	·01060			
23. 50	28. 10	18. 58	·1051	23. 55	·01150			
		19. 30	·1057					
		23. 55	·1040					
Nov. 10		Nov. 10		Nov. 10				
1. 13	22. 29. 20	1. 18	·1037	1. 30	·01070	1. 40	54 ·0	56 ·5
1. 42:	28. 0	3. 30:	·1025	3. 34	·00768	3. 40	57 ·0	60 ·0
2. 15	30. 40	18. 30	·1048	5. 30	·00838	9. 40	54 ·0	57 ·0
6. 0	21. 10	20. 36	·1056	9. 2	·00750	21. 40	48 ·0	51 ·0
15. 13	21. 30	23. 21	·1048	13. 14	·00858			
15. 55:	19. 0		***	18. 2	·01268			
17. 45	22. 0	23. 39	·1054	21. 15	·01195			
18. 30	19. 40							
21. 12	18. 50							
23. 55	25. 20							
Nov. 11		Nov. 11		Nov. 11				
1. 10	22. 30. 0	0. 21	·1040	1. 30	·01123	1. 40	51 ·0	54 ·0
1. 42	31. 0		***	3. 23	·00782	3. 40	56 ·0	59 ·0
2. 12	24. 30	0. 57	·1054	5. 45	·00820	10. 10	54 ·5	59 ·0
3. 28	21. 30	2. 6	·1040	9. 56	·00750	21. 45	49 ·0	54 ·0
4. 10	24. 50	4. 2	·1052	10. 35	·00772			
4. 30	23. 30	4. 23	·1037	11. 5	·00738			
4. 41	25. 30	4. 33	·1046	13. 30	·00850			

The indications are taken from the sheets of the Photographic Record, except where an atterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 11		Nov. 11		Nov. 11		h m	°	°
h m	° ′ ″	h m		h m				
5. 25	22. 22. 50	5. 1	·1037	18. 6	·01270			
5. 48	23. 10		***	22. 0	·01235			
9. 30	22. 20. 0	9. 5	·1042	23. 30	·01262			
10. 31	21. 52. 0	10. 6	·1032					
11. 31	22. 13. 40	10. 41	·1088					
11. 40	13. 0	11. 57	·1026					
12. 36	17. 20	13. 20	·1048					
13. 12	15. 0	13. 53	·1040					
13. 38	17. 20	14. 12	·1045					
13. 55	14. 0	15. 7	·1044					
14. 17	13. 30	21. 11	·1045					
14. 45	18 · 0	23. 55	·1038					
15. 30	15. 40							
	***							
23. 55	22. 20							
Nov. 12		Nov. 12		Nov. 12				
1. 0	22. 22. 20	1. 5	·1038	1. 5	·01215	1. 40	53 ·0	55 ·0
7. 59	21. 5	7. 3	·1040	3. 22	·00786	3. 40	59 ·0	60 ·8
8. 19	6. 10	8. 6	·1026	5. 30	·01330	9. 40	55 ·5	59 ·5
8. 53	18. 50	8. 27:	·1048	9. 36	·01270	21. 40	47 ·0	50 ·0
10. 7	18. 0	9. 10	·1034	12. 0	·00875			
11. 25	21. 0	11. 5	·1044	15. 54	·01290			
12. 0:	19. 0	22. 51	·1043	23. 15	·01230			
22. 0	19. 0	23. 18	·1048	23. 55	·01250			
23. 55	21. 55	23. 55	·1043					
Nov. 13		Nov. 13		Nov. 13				
1. 18	22. 24. 30	1. 15	·1045	1. 30	·01240	1. 40	52 ·0	54 ·0
9. 48	19. 40	3. 36	·1046	4. 0	·00950	3. 40	55 ·0	57 ·0
10. 15:	16. 0	5. 51	·1036	5. 34	·00718	9. 40	54 ·0	56 ·5
10. 40	18. 0	8. 14	·1044	6. 0	·00740	21. 40	50 ·0	52 ·0
12. 7	16. 40	8. 52	·1039	14. 40	·00688			
12. 40	20. 0	10. 27	·1049	22. 0	·00910			
13. 7	19. 0	11. 13	·1042	23. 55	·01030			
13. 36	14. 55	23. 52	·1040					
14. 11	20. 10							
14. 59	10. 30							
15. 54	20. 30							
23. 55	23. 30							
Nov. 14		Nov. 14		Nov. 14				
0. 42	22. 24. 10	0. 44	·1040	1. 0	·01028	1. 40	54 ·0	56 ·0
	***	3. 36	·1043	3. 44	·00760	3. 40	58 ·0	60 ·3
4. 14	21. 0	3. 58	·1037	6. 5	·00798	9. 40	53 ·0	58 ·0
4. 47	23. 30	4. 38	·1040	8. 0	·00767	21. 40	44 ·0	46 ·0
	***		***	9. 34	·00820			
5. 47	15. 5	5. 43	·1020	14. 31	·01267			
6. 22	21. 0	7. 5	·1036	23. 0	·01287			
10. 4	21. 0	7. 28	·1028	23. 55	·01135			
10. 23	14. 55	8. 0	·1040					
10. 46	19. 0	8. 30	·1035					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 14		Nov. 14				h m	°	°
h m	° ′ ″	h m		h m				
13. 25	22. 19. 10	8. 55	·1041					
14. 18	11. 30	10. 40	·1060					
14. 44	16. 35	12. 0	·1045					
15. 0:	16. 0	20. 26	·1060					
15. 51	20. 20	22. 55	·1065					
21. 7	20. 10	23. 51	·1056					
23. 40	24. 0							
Nov. 15		Nov. 15		Nov. 15				
0. 32	22. 24. 30	0. 36	·1055	1. 0	·01132	1. 40	45 ·0	48 ·0
8. 22	17. 0	3. 45	·1050	4. 0	·00900	3. 40	50 ·0	53 ·0
8. 51	13. 50	4. 29	·1069	6. 0	·00700	9. 40	45 ·0	48 ·0
9. 4	15. 10	5. 0	·1059	8. 30	·00620	23. 10	41 ·0	43 ·4
9. 42	8. 40		***	14. 50	·01065			
10. 19	20. 0	8. 39	·1058	18. 0	·01010			
10. 38:	15. 0	9. 8	·1048	23. 20	·01087			
10. 54	18. 0	9. 24	·1058					
	***	9. 41	·1046					
12. 46	10. 0	10. 10	·1058					
13. 29:	16. 0	10. 24	·1041					
14. 17	13. 10	10 ·45	·1048					
14. 49	19. 30	11. 5	·1042					
	***	11. 52	·1059					
14. 52	19. 0	12. 19	·1046					
16. 9	10 40	12. 36	·1059					
16. 31	20. 40	13. 30:	·1044					
17. 11	12. 0	14. 32	·1045					
18. 0	21. 10	14. 45	·1050					
23 17	23. 10	18. 5	·1055					
			***					
		19. 36	·1070					
		23. 21	·1053					
Nov. 16		Nov. 16		Nov. 16				
0. 0	22. 23. 40	0. 0	·1055	0. 0	·01070	9. 24	43 ·0	44 ·8
0. 56	30. 5	0. 46	·1063	1. 0	·01060	21. 40	38 ·0	41 ·0
1. 4	26. 30	1. 2	·1054	2. 0	·01080			
5. 0	21. 30	3. 41	·1062	3. 0	·01060			
12. 15:	14. 5	4. 5	·1059	5. 0	·00928			
22. 1	20. 0	22. 22	·1066	9. 21	·00438			
23. 50	24. 10	23. 55	·1058	15. 0	·00424			
				17. 0	·00520			
				22. 0	·00990			
				22. 30	·00972			
				23. 55	·01048			
Nov. 17		Nov. 17		Nov. 17				
0. 55	22. 23. 50	0. 38	·1050	1. 30	·00958	1. 40	44 ·0	45 ·0
1. 24	22. 0	0. 43	·1054	4. 26	·00515	3. 40	48 ·0	49 ·0
1. 57	20. 50	1. 0	·1046	5. 5	·00533	9. 40	44 ·0	48 ·0
2. 17	17. 10	1. 36	·1058	9. 35	·00455	21. 40	40 ·0	42 ·0
3. 57	18. 0	1. 47	·1052	18. 50	·01050			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.17	° ′ ″	Nov.17		Nov.17		h m	°	°
h m		h m		h m				
4. 7	22. 20. 0	3. 18	·1053	23. 0	·01032			
4. 38:	16. 50	3. 36	·1057					
6. 1	21. 10	4. 0	·1041					
7. 45	21. 0	4. 5	·1046					
8. 9	10. 50	4. 20	·1036					
8. 29	13. 40	5. 13	·1056					
12. 30:	18. 50	6. 40	·1058					
14. 30	21. 0	6. 50	·1006					
	***		***					
16. 51	21. 0	7. 56	·1056					
23. 55	22. 30	6. 32	·1056					
		9. 35	·1064					
		10. 29	·1055					
		12. 30	·1065					
		20. 15	·1066					
		23. 55	·1061					
Nov.18		Nov.18		Nov.18				
0. 24	22. 22. 20	0. 30	·1059	0. 27	·00930	1. 40	45 ·0	47 ·5
9. 14	17. 0	4. 5	·1048	2. 38	·00575	3. 40	50 ·0	51 ·0
13. 21	22. 0	5. 45	·1043	5. 0	·00582	9. 40	48 ·0	52 ·0
14. 28	18. 0	7. 50	·1049	6. 14	·00605	21. 40	39 ·0	40 ·0
14. 49	20. 0	8. 28	·1058	9. 38	·00545			
22. 0	19. 10	9. 4	·1054	14. 0	·00750			
23. 55	22. 20	11. 59	·1060	16. 40	·01070			
		12. 19	·1070	17. 30	·01032			
		12. 30	·1065	22. 30	·00970			
		12. 43	·1069	23. 55	·01040			
		15. 9	·1066					
		15. 28	·1059					
		18. 27	·1069					
		21. 35	·1068					
		22. 10	·1073					
		23. 55	·1064					
Nov.19		Nov.19		Nov.19				
0. 56	22. 24. 0	0. 30	·1064	1. 12	·01050	1. 40	40 ·0	42 ·0
6. 47	19. 50	5. 0	·1063	2. 38	·00972	3. 40	44 ·0	47 ·0
7. 2	16. 30	6. 40	·1055	5. 21	·00555	9. 40	47 ·0	48 ·0
7. 17	18. 0	6. 52	·1048	6. 5	·00615	21. 40	44 ·0	45 ·8
7. 34	17. 0	7. 14	·1056	9. 18	·00548			
8. 12	19. 0	8. 12	·1060	15. 0	·00532			
8. 28	13. 0	8. 21	·1058	18. 30	·00635			
8. 55	18. 40	8. 32	·1065	21. 47	·00807			
9. 33	11. 0	8. 50	·1060	23. 57	·00965			
10. 30	19. 30	9. 0	·1072					
21. 47	18. 30	10. 30	·1060					
23. 50	21. 0	20. 10	·1073					
		23. 55	·1057					
Nov.20		Nov.20		Nov.20				
0. 52	22. 22. 30	1. 0	·1054	1. 30	·00835	1. 40	48 ·0	50 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.20	° ′ ″	Nov.20		Nov.20		h m	°	°
h m		h m		h m				
4. 30:	22. 20. 0	2. 40	·1046	2. 36	·00648	3. 40	53 ·0	54 ·0
22. 50	21. 0	9. 54	·1052	6. 4	·00768	9. 40	51 ·3	55 ·0
23. 32	23. 20	18. 0	·1068	10. 0	·00668	21. 40	43 ·0	48 ·0
		22. 45	·1063	16. 35	·01206			
		23. 55	·1056	20. 30	·01175			
				22. 0	·01155			
				23. 45	·01180			
Nov.21		Nov.21		Nov.21				
0. 53	22. 23. 0	0. 30	·1058	1. 30	·01160	1. 40	46 ·3	47 ·4
3. 18	17. 10	3. 0	·1047	3. 30	·00908	3. 40	51 ·0	55 ·8
4. 59	26. 30	3. 35	·1054	4. 38	·00700	9. 40	51 ·0	56 ·0
9. 39	18. 0	4. 35	·1045	7. 0:	·00808	21. 40	46 ·5	52 ·8
10. 47	19. 0	4. 50	·1046	12. 0	·00705			
11. 55	13. 10	5. 11	·1038	19. 48	·01238			
13. 5	21. 0	7. 0	·1037	21. 46	·01240			
19. 0	21. 0	7. 34	·1043	23. 30	·01260			
20. 5	30. 0	8. 49	·1044					
20. 11	28. 10	9. 0	·1036					
20. 30	30. 0	9. 50	·1047					
21. 46:	23. 0	10. 27	·1050					
22. 38	24. 0	10. 40	·1045					
22. 50	22. 0	11. 28	·1049					
23. 0	24. 0	11. 50	·1060					
23. 47	18. 30	12. 44	·1049					
23. 55	22. 30	15. 27	·1058					
		18. 0	·1057					
		19. 27	·1044					
		19. 58	·1058					
		20. 11	·1046					
		20. 31	·1057					
		21. 46	·1030					
		22. 0	·1035					
		22. 20	·1029					
		22. 45	·1037					
		23. 55	·1043					
Nov.22		Nov.22		Nov.22				
0. 0	22. 28. 0	0. 0	·1043	1. 30	·01135	1. 40	51 ·0	55 ·8
0. 16	27. 10	1. 30	·0998	3. 8	·00878	3. 40	53 ·0	58 ·8
0. 20	29. 0	1. 40	·1004	5. 0	·00912	9. 40	53 ·0	56 ·0
0. 24	25. 50	2. 37	·1010	9. 30	·00790	22. 56	53 ·0	56 ·0
0. 28	27. 10	3. 4	·1006	12. 55	·00760			
0. 33	23. 30	3. 25	·1014	16. 12	·01275			
1. 15	32. 15	3. 47	·0998	18. 40	·01210			
1. 33	25. 40	4. 22	·1032	21. 30	·01280			
2. 9	21. 40	4. 46	·0996	23. 6	·01280			
3. 0	26. 5	4. 58	·1016					
3. 42	27. 0		***					
4. 11	20. 40	5. 11	·1014					
4. 42	25. 0	5. 21	·1022					
4. 55	12. 30	6. 18	·1004					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	Readings of Thermometers. On V. F. Magnet.
Nov. 22		Nov. 22						
h m	° ′ ″	h m		h m		h m	°	°
5. 13	22. 20. 30	6. 52	·1017					
5. 47	22. 10	7. 30	·1023					
6. 11	20. 30	7. 50	·1016					
6. 40	10. 0	8. 11	·1041					
7. 37	18. 10	8. 50	·1024					
7. 58	10. 0	9. 3	·1042					
8. 14	14. 0	9. 44	·1032					
9. 32	17. 30	10. 40	·1047					
9. 56	15. 0	10. 55	·1040					
10. 32	20. 0	11. 16	·1041					
11. 44	15. 0	11. 40:	·1051					
12. 27	19. 30	12. 31	·1040					
12. 45	17. 30	13. 5	·1038					
13. 14	16. 30	14. 47	·1045					
14. 10:	18. 10	19. 55	·1054					
15. 0	20. 50		***					
15. 30	18. 50	21. 0	·1040					
16. 41	22. 20		***					
21. 38	21. 0	23. 0	·1046					
21. 56	24. 30							
22. 30:	21. 0							
23. 10	27. 10							
Nov. 23		Nov. 23		Nov. 23				
0. 0	22. 26. 0	0. 0	·1044	4. 0	·01250	10. 40	43 ·0	47 ·3
1. 21	25. 0	1. 0	·1039	7. 30	·01245	21. 40	47 ·0	52 ·5
1. 27	28. 0	1. 27	·1051	15. 0	·01210			
4. 30	24. 0		***	19. 0	·01095			
4. 58	18. 20	3. 0	·1043	23. 30	·00768			
5. 18	20. 10		***					
5. 51	10. 40	4. 52	·1044					
6. 23	18. 40	5. 9	·1056					
6. 37	15. 0	5. 30	·1046					
7. 20	19. 0	5. 57	·1067					
7. 49	16. 10	6. 30	·1044					
8. 3	19. 20	6. 50	·1052					
8. 29	20. 0	7. 23	·1045					
8. 53	15. 0	7. 53	·1060					
9. 12	18. 0	8. 6	·1052					
9. 29	8. 5	8. 32	·1051					
9. 47	13. 0	9. 0	·1075					
11. 52	18. 30	9. 22	·1045					
12. 11	21. 30	9. 37	·1056					
12. 53	16. 0	9. 57	·1047					
15. 59	20. 0	11. 15	·1051					
16. 23	25. 0	11. 58	·1074					
16. 56:	22. 40	12. 26	·1059					
17. 20	24. 30	12. 55	·1062					
20. 50	22. 8	13. 26	·1052					
23. 55	26. 10	19. 25	·1052					
		20. 12	·1040					
		21. 0	·1043					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	Readings of Thermometers. On V. F. Magnet.
		Nov. 23						
h m	° ′ ″	h m		h m		h m	°	°
		21. 38	·1038					
		22. 15	·1032					
Nov. 24		Nov. 24		Nov. 24				
1. 12	22. 27. 0	1. 15	·1040	2. 0	·00720	1. 40	50 ·0	55 ·2
2. 15	26. 30	2. 0	·1042	4. 0	·00808	3. 40	54 ·0	58 ·0
2. 27	19. 0	2. 22	·1032	7. 30	·00757	9. 40	50 ·0	54 ·0
3. 44	24. 5	2. 40	·1030	9. 25	·00718	21. 40	44 ·0	47 ·8
5. 48	25. 10		***	15. 0	·01180			
6. 30	22. 0	6. 30	·1033	21. 40	·01110			
7. 0	24. 40	6. 50	·1040	23. 55	·01148			
7. 53	22. 20	7. 6	·1030					
8. 20	2. 5	7. 36	·1066					
8. 46	16. 0	7. 52	·1047					
8. 55	14. 55	9. 9	·1040					
9. 31	19. 0	9. 53	·1048					
10. 4	14. 50	11. 12	·1044					
11. 56	17. 10	11. 40	·1050					
12. 56	12. 10	17. 50	·1065					
17. 30	22. 50	21. 45	·1061					
23. 55	23. 10	23. 55	1058					
Nov. 25		Nov. 25		Nov. 25				
0. 33	22. 23. 30	0. 30	·1058	1. 0	·01188	1. 40	46 ·8	51 ·0
13. 35:	18. 10	15. 0	·1065	3. 0	·00935	3. 40	50 ·0	54 ·0
23. 55	21. 10	23. 54	·1066	3. 58	·00712	9. 40	48 ·0	52 ·8
				5. 10	·00850	21. 40	43 ·0	48 ·0
				10. 0	·00700			
				16. 7	·01240			
				23. 55	·01208			
Nov. 26		Nov. 26		Nov. 26				
0. 30	22. 22. 0	0. 36	·1064	1. 0	·01195	1. 40	45 ·3	51 ·0
7. 30:	19. 30	8. 1:	·1077	4. 0	·00918	3. 40	50 ·0	55 ·0
8. 40	20. 50	9. 0:	·1060	5. 30	·00692	9. 40	48 ·5	53 ·0
9. 26	18. 40	9. 50:	·1071	10. 30	·00630	21. 40	44 ·0	51 ·0
20. 20	21. 0	10. 6	·1067	13. 0	·00660			
20. 47:	14. 0	15. 38	·1073	21. 54	·01192			
21. 26	18. 50	15. 55	·1069	23. 55	·01162			
23. 55	21. 20	16. 42	·1078					
		22. 25	·1076					
		23. 55	·1065					
Nov. 27		Nov. 27		Nov. 27				
0. 10	22. 22. 0	0. 11	·1065	0. 30	·01110	1. 40	48 ·0	51 ·5
10. 11	19. 30	1. 38	·1066	4. 37	·00760	3. 40	49 ·0	52 ·5
11. 10	6. 30	1. 45	·1069	5. 46	·00780	9. 40	49 ·0	53 ·0
11. 44	14. 0	3. 0	·1066	12. 0	·00725	21. 40	45 ·0	50 ·0
12. 21	14. 10	3. 36:	·1071	18. 48	·01242			
12. 44	9. 10	5. 51	·1064	22. 0	·01211			
14. 6	18. 10	9. 49	·1074	23. 55	·01248			
19. 10	21. 51	10. 41	·1066					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.27		Nov.27						
h m	° ′ ″	h m		h m		h m	°	°
23. 20	22. 23. 30	10. 54	·1074					
		11. 3	·1070					
		11. 10	·1074					
		11. 50	·1060					
		12. 0	·1063					
		12. 13	·1058					
		21. 0	·1076					
		23. 20	·1066					
Nov.28		Nov.28		Nov.28	(†)			
0. 10	22. 24. 10	0. 5	·1054	4. 0	·01015	1. 40	47 ·0	51 ·0
8. 0	19. 40	4. 44	·1061	5. 45	·00758	3. 40	49 ·0	53 ·0
8. 54	15. 5	5. 0	·1055	11. 30	·00690	9. 40	49 ·5	53 ·0
9. 0	18. 50	5. 30	·1059	18. 25	·01215	21. 40	44 ·0	48 ·5
21. 40	19. 20	20. 41	·1079	23. 0	·01162			
23. 30	23. 30	23. 30	·1070	23. 55	·01175			
Nov.29		Nov.29		Nov.29				
1. 0	22. 23. 0	0. 0	·1062	1. 0	·01190	1. 40	45 ·0	49 ·5
11. 6	19. 10	0. 43	·1066	2. 0	·01180	3. 40	48 ·0	52 ·5
11. 44	11. 0	1. 0	·1075	4. 0	·00940	9. 40	48 ·0	53 ·0
13. 59	21. 10	4. 0	·1064	5. 29	·00670	22. 40	43 ·0	48 ·0
16. 30	7. 0	10. 6	·1077	9. 58	·00635			
17. 20	15. 0	12. 52	·1070	18. 35	·01170			
21. 30:	8. 40	14. 22	·1082	22. 45	·01150			
23. 30	23. 10	15. 0	·1078					
		19. 6	·1087					
		23. 52	·1075					
Nov.30		Nov.30		Nov.30				
0. 32	22. 25. 10	0. 6	·1086	0. 0	·01138	8. 30	44 ·0	51 ·0
10. 12	19. 30	4. 2	·1071	2. 10	·01175	21. 40	45 ·0	46 ·0
10. 45	16. 30	10. 30	·1076	6. 0	·00965			
11. 48	20. 0	12. 0	·1068	8. 20	·00807			
11. 58	18. 0	14. 0	·1080	10. 30	·00820			
12. 12	22. 20	15. 0	·1078	15. 20	·01120			
12. 46:	19. 0	16. 0	·1084	23. 0	·01128			
13. 54	21. 20	18. 0	·1087	23. 55	·01087			
14. 58	18. 10	21. 14	·1076					
15. 30	24. 40	21. 27	·1088					
17. 0	21. 30	23. 54	·1077					
22. 3	20. 50							
23. 58	24. 10							
Dec. 1		Dec. 1		Dec. 1				
0. 55	22. 26. 10	0. 55	·1075	1. 0	·01003	1. 40	43 ·0	48 ·0
4. 40	20. 30	1. 26	·1081	3. 0	·00842	3. 40	45 ·5	52 ·0
5. 25	22. 50	4. 1	·1066	4. 15	·00648	9. 40	50 ·0	51 ·0
6. 30	21. 15	4. 15	·1071	5. 0	·00700	21. 45	46 ·0	51 ·0
7. 30:	18. 40	4. 39	·1066	15. 0	·00623			
7. 52:	20. 50	5. 47	·1069	21. 48	·00955			
8. 52:	17. 20	6. 45	·1062	23. 42	·00935			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 1		Dec. 1						
h m	° ′ ″	h m		h m		h m	°	°
9. 18:	22. 18. 30	9. 24	·1062					
9. 48:	7. 45	9. 52:	·1083					
10. 22	16. 30	10. 11:	·1066					
10. 56	15. 0	10. 27:	·1070					
12. 26	19. 0	10. 47	·1060					
12. 50:	15. 0	12. 0	·1063					
16. 27	21. 30	12. 35	·1069					
23. 42	23. 30	13. 16	·1066					
		21. 26	·1072					
		23. 41	·1058					
Dec. 2		Dec. 2		Dec. 2				
0. 0	22. 23. 30	0. 0	·1059	0. 0	·00915	1. 40	49 ·0	53 ·5
0. 21	24. 20	2. 29	·1072	3. 12	·00700	3. 40	51 ·0	55 ·0
6. 10	20. 0	2. 51	·1058	5. 30	·00790	9. 40	50 ·5	57 ·0
7. 15	20. 20	3. 2	·1062	9. 30	·00693	21. 40	48 ·0	51 ·0
23. 55	22. 0	6. 1	·1055	16. 39	·01248			
		6. 30:	·1047	18. 0	·01242			
		19. 0	·1079	21. 47	·01275			
		23. 46	·1070	23. 52	·01270			
Dec. 3		Dec. 3		Dec. 3				
0. 0	22. 22. 30	0. 0	·1060	0. 30	·01210	1. 40	49 ·0	53 ·5
13. 6	20. 0	2. 3	·1069	4. 52	·00730	3. 40	52 ·0	55 ·0
13. 28	17. 10	5. 0	·1057	7. 22	·00725	9. 35	52 ·0	53 ·0
13. 43	17. 0	13. 0	·1065	9. 24	·00645	21. 40	45 ·0	50 ·0
14. 10:	19. 50	13. 28:	·1073	14. 0	·00718			
14. 35	17. 15	13. 49	·1063	19. 30	·01100			
16. 0	20. 0	15. 0	·1073	23. 22	·01110			
21. 51	19. 0	23. 54	·1072					
23. 55	22. 0							
Dec. 4		Dec. 4		Dec. 4				
0. 15	22. 22. 10	0. 25	·1063	1. 0	·01235	1. 40	47 ·5	51 ·5
9. 37	19. 20	7. 45	·1060	3. 30	·01140	3. 40	49 ·5	53 ·0
9. 56	13. 10	8. 25	·1055	6. 37	·00690	9. 40	50 ·0	54 ·0
10. 34	18. 10	9. 41	·1065	14. 30	·00712	21. 40	49 ·0	53 ·0
22. 0	18. 30	9. 57	·1068	18. 0	·00805			
23. 55	22. 10	10. 41	·1058	19. 0	·00820			
		21. 47	·1060	23. 55	·00735			
		21. 52	·1066					
		23. 10	·1068					
		23. 45	·1070					
Dec. 5		Dec. 5		Dec. 5				
0. 0	22. 22. 50	0. 30	·1069	0. 32	·00710	1. 40	53 ·0	57 ·0
4. 0	20. 50	4. 0	·1057	3. 0	·00802	3. 40	54 ·0	58 ·0
18. 18	20. 0	8. 0	·1059	12. 9	·00755	9. 40	56 ·5	57 ·5
18. 49:	27. 30	13. 0	·1063	15. 2	·00785	21. 46	53 ·0	57 ·5
19. 23	21. 10	13. 52	·1069	23. 30	·01070			
21. 25	20. 5	18. 33	·1066					
21. 44	22. 10	19. 19:	·1085					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	Readings of Thermometers. On V. F. Magnet.
Dec. 5		Dec. 5						
h m	° ′ ″	h m		h m		h m	°	°
22. 0	22. 20. 10	20. 18	·1081					
23. 55	21. 0	20. 52	·1071					
		21. 45	·1078					
		21. 58	·1066					
		23. 30	·1064					
Dec. 6		Dec. 6		Dec. 6				
0. 12	22. 20. 40	0. 30	·1058	0. 12	·01120	1. 40	53 ·5	59 ·0
4. 52	18. 20		***	2. 1	·01082	3. 40	57 ·0	59 ·0
6. 24	27. 20	5. 18	·1063	4. 20	·00845	9. 40	55 ·0	60 ·0
6. 49	23. 50	6. 5	·1052	5. 30	·00870	22. 40	53 ·5	57 ·0
7. 10	25. 30	6. 9	·1054	5. 38	·00940			
7. 45	22. 30	6. 51	·1022	6. 42	·00910			
8. 9	5. 50	7. 25	·1017	7. 53	·00975			
8. 40	21. 10	7. 38	·1022		***			
9. 2	9. 50	8. 3	·1004	8. 52	·01085			
9. 9	4. 30	8. 21	·1014		***			
9. 14	6. 30		***	9. 55	·00925			
9. 18	11. 10	8. 55	·0991	10. 10	·00915			
9. 20	6. 30		***	10. 25	·00965			
9. 42	22. 7. 0	9. 20	·1014	10. 32	·00900			
9. 57	21. 59. 50	9. 27	·0987	10. 35	·01010			
10. 8	22. 9. 30	9. 55	·0988	10. 47	·00708			
10. 19	5. 10	10. 13	·0959	10. 50	·01002			
10. 31	22. 6. 0	10. 22	·0967	10. 52	·00925			
10. 40	21. 45. 20	10. 24	·0962	10. 56	·00972			
10. 43	50. 30	10. 35	·1034		***			
10. 44	45. 10	10. 38	·1015	11. 14	·00770			
10. 46	50. 0	10. 40	·1029	11. 16	·00790			
10. 50	21. 46. 30	10. 42	·0996	11. 27	·00713			
10. 51	22. 11. 50	10. 55	·1149	12. 35	·00875			
10. 56	21. 49. 40	11. 17	·0997	12. 58	·00810			
11. 8	22. 36. 50	11. 21	·1000	13. 13	·00930			
11. 31	21. 53. 30	11. 25	·0983	13. 23	·00870			
11. 40	50. 10	11. 29	·0985	13. 32	·00930			
11. 45	54. 20	11. 32	·0981	13. 38	·00920			
12. 4	47. 40	11. 38	·0995	14. 5	·01065			
12. 38	53. 40	11. 45	·0969	14. 17	·00940			
12. 40	21. 51. 40		***	14. 20	·00990			
13. 37	22. 8. 30	12. 15	·0982	14. 28	·00890			
	***		***	14. 48	·01000			
14. 3	22. 4. 30	13. 2	·0958	15. 2	·00945			
14. 7	21. 50. 0	13. 8	·0967	18. 0	·01253			
14. 22	22. 31. 30	13. 15	·0967	22. 50	·01350			
14. 48	4. 10	13. 26	·0954					
15. 2	37. 20	13. 32	·0965					
15. 37	11. 10	13. 40	·0955					
15. 57	15. 40	14. 8	·1046					
	***	14. 14	·1018					
16. 22	14. 0	14. 20	·1038					
16. 35	19. 0	14. 28	·0984					
	***	14. 52	·1056					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	Readings of Thermometers. On V. F. Magnet.
Dec. 6		Dec. 6						
h m	° ′ ″	h m		h m		h m	°	°
22. 34	22. 20. 40	15. 7	·1003					
	***	15. 20	·1002					
23. 30	24. 30	15. 41	·1026					
		16. 3	·1017					
			***					
		16. 32	·1031					
		16. 49	·1026					
			***					
		19. 33	·1042					
		19. 37	·1049					
		19. 40	·1041					
			***					
		21. 42	·1040					
		21. 46	·1046					
		21. 52	·1037					
		22. 26	·1041					
		22. 40	·1038					
			***					
		23. 55	·1048					
Dec. 7		Dec. 7		Dec. 7				
0. 0	22. 22. 30	0. 30	·1051	0. 6	·01355	8. 43	53 ·0	56 ·0
1. 30	24. 10		***	4. 12	·01412	21. 50	50 ·0	56 ·0
2. 39	19. 50	3. 30	·1041	5. 38	·01430			
4. 0	22. 50	3. 50	·1048	6. 22	·01350			
5. 30	22. 0		***	7. 30	·01300			
6. 29	6. 10	5. 5	·1005	8. 27	·01310			
7. 4	17. 50	6. 5	·1032	8. 36	·01280			
7. 47	19. 30	6. 41	·1038	13. 24	·01450			
8. 51	7. 20	6. 49	·1033	19. 24	·01368			
9. 30	10. 0	7. 5	·1034	20. 58	·01425			
9. 52	8. 30	7. 26	·1062	23. 55	·01310			
10. 44	21. 0	7. 41	·1038					
11. 20	18. 0	8. 6	·1053					
	***		***					
14. 41	23. 0	8. 45	·1038					
15. 36	18. 40		***					
	***	11. 40	·1049					
18. 30	20. 58		***					
21. 19	20. 0	12. 36	·1040					
22. 6	21. 5		***					
23. 50	16. 30	13. 52	·1048					
23. 55	30. 30	14. 3	·1043					
		14. 11	·1050					
		16. 32	·1047					
			***					
		17. 14	·1063					
		18. 29	·1059					
		18. 40	·1066					
		18. 59	·1056					
			***					
		20. 15	·1059					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Dec. 7 h m		h m		h m	°	°
		20. 40	·1051					
		21. 10	·1058					
		22. 0	·1050					
		22. 52	·1056					
		23. 55	·1046					
Dec. 8		Dec. 8		Dec. 8				
0. 0	22. 31. 5	1. 45	·1039	2. 52	·00915	1. 40	53 ·5	58 ·0
0. 37	25. 10	2. 40	·1051	4. 47	·00992	3. 40	55 ·5	61 ·0
1. 6	29. 30	3. 39	·1043	10. 22	·00873	9. 40	57 ·5	61 ·0
4. 4	21. 5	3. 59	·1048	15. 45	·01398	21. 40	48 ·0	53 ·0
4. 16	17. 30	4. 12	·1039	18. 30	·01345			
4. 36	22. 0	4. 31:	·1051	20. 0	·01352			
5. 42	16. 40	5. 4	·1034	21. 53	·01325			
6. 11	19. 30	5. 18	·1039	23. 9	·01360			
8. 23	18. 0	5. 34	·1034		†			
8. 57	10. 0	5. 55	·1046					
9. 13	13. 50	8. 44	·1042					
9. 26	9. 0	10. 0	·1076					
9. 43	12. 10	11. 2	·1043					
9. 50	9. 0	12. 19	·1053					
10. 15	16. 0	12. 35	·1046					
10. 29	13. 50	13. 11	·1056					
12. 8	19. 10	13. 21	·1052					
12. 24	28. 25	14. 10	·1055					
12. 37	28. 30	14. 40	·1046					
12. 57	21. 5		***					
14. 19	18. 50	16. 40	·1059					
15. 56	22. 0	22. 38	·1070					
16. 17	19. 10	23. 10	·1062					
23. 8	22. 30		†					
Dec. 9		Dec. 9	†	Dec. 9	†			
2. 16	22. 19. 10	3. 15	·1062	3. 25	·01290	1. 40	50 ·0	52 ·5
4. 0:	23. 30	4. 41:	·1043	4. 23	·01313	3. 40	53 ·0	54 ·0
5. 0:	19. 0	5. 30	·1054	6. 10	·00935	9. 30	57 ·5	59 ·0
5. 55:	23. 50	5. 55	·1047	9. 51	·00925	21. 40	57 ·0	61 ·0
8. 0.	16. 0	6. 8	·1052	10. 43	·00945			
9. 10	19. 0	6. 27	·1048	11. 19	·00910			
10. 40	14. 30	6. 38	·1053	13. 30	·00910			
10. 55:	21. 20	6. 56	·1045	18. 0	·00890			
12. 35:	16. 0	7. 15	·1053	23. 55	·01020			
13. 25	21. 20	7. 40	·1046					
15. 10	23. 0	8. 13	·1054					
16. 16	20. 20	9. 28	·1054					
16. 47	22. 30	10. 10	·1045					
23. 55	22. 50	10. 49	·1079					
		11. 34	·1051					
		18. 45	·1060					
		20. 26	·1050					
		22. 10	·1057					
		23. 50	·1040					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 10 h m	° ′ ″	Dec. 10 h m		Dec. 10 h m		h m	°	°
0. 16	22. 23. 0	0. 18	·1045	0. 30	·01017	1. 40	57 ·5	62 ·0
1. 13	21. 20	2. 33	·1054	2. 0	·01025	3. 40	59 ·0	63 ·0
4. 18	19. 0	4. 0:	·1042	3. 42	·00923	9. 40	58 ·5	62 ·0
5. 0	21. 10	4. 22	·1051	5. 8	·00995	21. 40	53 ·0	57 ·0
7. 42	20. 40	7. 52	·1051	13. 0	·00915			
8. 10	12. 0	8. 14	·1064	17. 0	·01110			
9. 0	19. 10	8. 32	·1057	20. 38	·01483			
10. 54	16. 10	10. 32	·1048	22. 30	·01450			
	***	10. 45	·1058	23. 55	·01485			
11. 34	19. 30	11. 19	·1054					
12. 35	16. 50	22. 12	·1065					
13. 24	19. 30		***					
14. 16	16. 30	23. 53	·1055					
15. 45	22. 30							
17. 30	17. 45							
22. 10	22. 10							
	***							
23. 59	22. 10							
Dec. 11		Dec. 11		Dec. 11				
0. 17	22. 22. 30	0. 18	·1054	1. 0	·01475	1. 40	54 ·0	58 ·4
1. 40	24. 10	1. 40	·1054	3. 0	·01385	3. 40	57 ·0	59 ·8
	***	2. 7	·1041	6. 30	·00935	9. 41	55 ·3	59 ·8
2. 51	19. 0	3. 30	·1055	10. 0	·00850	21. 45	47 ·0	52 ·0
5. 40	16. 20	5. 13	·1045	10. 30	·01308			
6. 5	20. 0	5. 49	·1059	23. 55	·01353			
6. 38	17. 0	6. 24	·1054					
7. 1	19. 0	6. 55	·1059					
7. 45	18. 0	8. 36	·1057					
8. 26	20. 10	8. 51	·1053					
9. 15	16. 5	9. 48	·1084					
9. 28:	12. 40	9. 59	·1078					
9. 51	17. 0	10. 15	·1088					
10. 8:	12. 0	11. 30	·1057					
12. 28	19. 5	15. 3	·1063					
12. 45:	17. 50	15. 22	·1075					
15. 0	20. 0	15. 35	·1071					
15. 26	26. 10	23. 55	·1074					
15. 46	22. 5							
17. 19	20. 10							
23. 55	22. 0							
Dec. 12		Dec. 12		Dec. 12				
0. 17	22. 22. 55	0. 17	·1072	1. 0	·01343	1. 40	49 ·0	53 ·6
4. 0	19. 40	4. 37	·1064	2. 8	·01270	3. 40	53 ·0	56 ·0
6. 13	24. 40	5. 13	·1056	6. 42	·00803	9. 40	49 ·5	55 ·0
6. 38	22. 40	6. 24	·1061	9. 28	·00710	21. 45	47 ·5	53 ·0
7. 12	13. 0	6. 43:	·1047	14. 20	·00840			
7. 35	17. 10	7. 17	·1072	15. 0	·00840			
7. 48	14. 10	7. 41	·1051	16. 30	·00938			
8. 3	17. 40	7. 54	·1066	22. 30	·01147			
8. 58	15. 40	12. 54	·1073	23. 55	·01030			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol: attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 12		Dec. 12						
h m	° ′ ″	h m		h m		h m	°	°
11. 24	22. 16. 30	13. 39	·1062					
11. 54	19. 0	14. 14:	·1091					
13. 10	15. 30	15. 16	·1062					
13. 28	18. 20	16. 41	·1069					
14. 6	7. 40		***					
14. 35	14. 10	17. 54	·1082					
15. 20	14. 0	21. 6	·1075					
15. 46	19. 5	21. 27:	·1062					
16. 1	16. 10	21. 45	·1075					
	***	23. 54	·1061					
22. 53	21. 0							
23. 23	24. 20							
Dec. 13		Dec. 13		Dec. 13				
0. 9	22. 21. 0	0. 10	·1059	0. 30	·00970	1. 40	51 ·5	56 ·4
0. 56	23. 50	0. 45	·1073		***	3. 40	53 ·0	57 ·5
	***	4. 3	·1064	2. 10	·00750	9. 40	53 ·0	57 ·0
1. 30:	20. 50	4. 31	·1032	5. 24	·00857	22. 52	48 ·5	56 ·0
1. 51	23. 0	6. 13	·1074	7. 32	·00810			
2. 53	22. 10	7. 30	·1054	7. 53	·00823			
4. 10	26. 0	8. 7	·1085	8. 17	·00795			
4. 58	10. 30	8. 54	·1064	12. 0	·00770			
6. 0	22. 0	9. 13	·1073	21. 0	·01305			
6. 30	20. 0	10. 0	·1057	23. 55	·01295			
6. 38	23. 50	10. 24	·1084					
6. 47	20. 0	11. 5	·1064					
7. 15	20. 50	11. 30	·1077					
7. 43	12. 45	12. 16	·1066					
7. 55	17. 50	13. 11	·1064					
8. 4	10. 0	18. 38	·1085					
8. 10	11. 10		***					
8. 21	6. 30	19. 36	·1082					
9. 1	16. 10		***					
9. 15	15. 10	21. 30	·1077					
9. 40	17. 0	22. 13	·1069					
9. 57	20. 0	23. 5	·1075					
10. 18	16. 0	23. 30	·1078					
10. 57	21. 0							
11. 17	16. 30							
11. 38	20. 40							
12. 28	14. 50							
12. 57	18. 50							
13. 18	17. 30							
13. 49	21. 15							
22. 29	19. 40							
22. 33	20. 30							
22. 38	18. 10							
22. 44	23. 10							
22. 47	21. 0							
23. 30	21. 40							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 14		Dec. 14		Dec. 14				
h m	° ′ ″	h m		h m		h m	°	°
0. 10	22. 21. 40	0. 0	·1076	0. 0	·01287	9. 26	48 ·0	53 ·0
4. 30	25. 0	6. 0	·1085	1. 30	·01350	21. 40	46 ·0	47 ·5
7. 16	21. 20	6. 58	·1084	3. 30	·01360			
7. 46	16. 40	7. 28:	·1073	12. 30	·01375			
7. 56	16. 0	8. 20	·1086	14. 0	·01330			
8. 10	14. 0	8. 31	·1079	23. 54	·01300			
8. 24	16. 30	12. 15	·1079					
9. 18	20. 0	12. 40	·1091					
11. 50	19. 30	14. 2	·1079					
12. 5	21. 40	15. 59	·1077					
12. 19	20. 0	16. 53	·1076					
12. 40:	23. 0	19. 40	·1084					
13. 18	19. 5	23. 0	·1077					
20. 0	21. 0	23. 55	·1074					
23. 55	22. 10							
Dec. 15		Dec. 15		Dec. 15				
1. 20	22. 23. 20	1. 40	·1080	1. 30	·01280	1. 40	49 ·0	53. 6
8. 45	20. 0	1. 46	·1083	5. 0	·00725	3. 40	51 ·0	54. 0
9. 0	18. 20	2. 25	·1078	8. 30	·00695	9. 40	49 ·0	52. 5
9. 26	20. 0	2. 41	·1069	19. 0	·01135	21. 40	46 ·5	51. 8
13. 55:	19. 50	5. 6	·1070	22. 30	·01233			
15. 40	23. 0	7. 34	·1079	23. 54	·01220			
16. 53	17. 30	9. 26	·1078					
23. 30	23. 50	9. 53	·1080					
		15. 49	·1077					
		20. 15	·1088					
		21. 52	·1084					
		23. 0	·1072					
		23. 55	·1076					
Dec. 16		Dec. 16		Dec. 16				
0. 32	22. 23. 0	0. 30	·1074	1. 0	·01160	1. 40	49 ·5	54 ·0
5. 30	21. 10	2. 0	·1071	2. 0	·01060	3. 40	53 ·0	57 ·0
6. 1:	13. 40	4. 8	·1031	3. 39	·00770	9. 40	52 ·8	57 ·0
6. 50:	23. 0	4. 54	·1058	5. 21	·00830	21. 40	49 ·8	55 ·0
7. 25	19. 30	5. 13	·1058	9. 26	·00770			
23. 30	16. 10	5. 40	·1044	14. 28	·00763			
		6. 28	·1068	22. 30	·00973			
		6. 55	·1062	23. 55	·00920			
		7. 30	·1067					
		18. 0	·1075					
		21. 30	·1075					
		23. 30	·1063					
Dec. 17		Dec. 17		Dec. 17				
0. 40	22. 21. 40	1. 0	·1059	1. 30	·00782	1. 40	54 ·0	58 ·0
2. 19	23. 40	2. 44	·1061	5. 12	·00865	3. 40	56 ·0	59 ·8
7. 30	19. 40	6. 45	·1068	7. 30	·00720	9. 40	54 ·0	57 ·5
8. 3	18. 10	9. 25	·1074	15. 58	·01197	21. 40	47 ·0	52 ·0
8. 35	20. 0	16. 14	·1075	23. 55	·01145			
10. 25	19. 40	18. 10	·1086					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 17		Dec. 17						
h m	° ′ ″	h m		h m		h m	°	°
11. 0:	22. 16. 30	19. 33	·1093					
11. 43:	19. 0		***					
12. 0:	18. 0	21. 51	·1086					
12. 18	20. 0	23. 0	·1070					
15. 22	19. 35	23. 55	·1068					
15. 43	21. 10							
22. 0	20. 30							
23. 55	25. 0							
Dec. 18		Dec. 18		Dec. 18				
0. 35	22. 25. 30	1. 0	·1068	1. 0	·01365	1. 40	48 ·5	54 ·0
1. 21	25. 20	1. 55	·1071	2. 5	·01333	3. 40	50 ·0	54 ·8
1. 45	26. 40	2. 50	·1070	6. 30	·00942	10. 43	49 ·0	54 ·0
2. 55	27. 30	3. 32	·1048	9. 12	·00923	21. 40	49 ·0	53 ·5
8. 15	20. 10	4. 7	·1000	14. 30	·00978			
9. 0	13. 50	6. 3	·1070	14 38	·00990			
9. 20	16. 30	6. 40	·1066	15. 11	·00973			
10. 25:	13. 10	8. 18	·1072	17. 2	·01032			
13. 43:	21. 15	9. 22	·1065	20. 31	·01120			
14. 16	18. 40	9. 39	·1070	23. 55	·01075			
14. 48:	33. 50	10. 55	·1065					
17. 9:	15. 10	14. 1	·1079					
19. 43	21. 30	14. 31	·1075					
20. 45	25. 15	14. 42	·1082					
21. 53	21. 30	15. 50	·1078					
23. 55	26. 15	16. 35	·1094					
		17. 0	·1084					
			***					
		18. 25	·1089					
		19. 32	·1082					
		19. 41	·1088					
		20. 20	·1075					
			***					
		22. 9	·1074					
		23. 32	·1068					
		23. 55	·1063					
Dec. 19		Dec. 19		Dec. 19				
0. 35	22. 21. 10	0. 30	·1048	1. 0	·01005	1. 40	53 ·4	56 ·5
1. 43	27. 0	1. 0	·1059	2. 24	·00770	3. 40	56 ·5	59 ·4
4. 40	21. 20	4. 1	·1056	5. 38	·00990	9. 40	54 ·5	57 ·5
5. 17	16. 10	5. 8	·1046	9. 55	·00844	21. 40	53 ·5	57 ·0
6. 19	19. 10	5. 58	·1058	18. 0	·01010			
7. 20	20. 0	6. 55	·1059	19. 30	·01060			
8. 20	17. 20	7. 28	·1054	20. 30	·01050			
10. 24	17. 0	9. 30	·1062	23. 0	·01095			
15. 42	20. 30	10. 24	·1058	23. 55	·01060			
22. 55	20. 0	18. 0	·1071					
23. 14	24. 5	18. 50	·1077					
23. 40	20. 10	20. 31	·1070					
		22. 1	·1068					
		22. 30	·1062					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 19								
h m	° ′ ″	h m		h m		h m	°	°
23. 1	·1065							
23. 10	·1068							
23. 35	·1062							
Dec. 20		Dec. 20		Dec. 20				
0. 40	22. 21. 10	1. 0	·1069	1. 0	·01003	1. 40	56 ·0	58 ·0
1. 1	23. 10	1. 22	·1058	3. 0	·00885	3. 40	58 ·0	60 ·0
1. 48	21. 0	2. 2	·1064	5. 18	·00913	9. 40	55 ·0	58 ·4
2. 45	24. 0	6. 35	·1060	7. 30	·00870	23. 4	54 ·0	57 ·5
8. 0	21. 0	7. 28	·1050	7. 52	·00995			
8. 29	18. 40	8. 25	·1050	13. 38	·00888			
8. 42	19. 40	9. 30	·1060	21. 0	·01495			
10. 50	17. 30	10. 11	·1057	23. 25	·01483			
11. 20	20. 30	10. 24	·1063					
12. 15	12. 30	11. 6	·1070					
13. 32	21. 10	11. 14	·1067					
13. 58	15. 40	11. 20	·1070					
15. 35	20. 40	16. 40	·1068					
23. 28	22. 40	19. 20	·1076					
		20 57	·1068					
		23. 30	·1068					
Dec. 21		Dec. 21		Dec. 21				
0. 0	22. 22. 40	0. 0	·1069	0. 0	·01500	10. 42	52 ·0	55 ·0
0. 50	22. 20	1. 40	·1070	1. 43	·01505	21. 40	50 ·0	55 ·5
1. 7	24. 40	1. 44	·1065	1. 49	·01525			
1. 8	21. 5	1. 59	·1066	1. 53	·01510			
1. 36	31. 20	2. 12	·1073		***			
2. 0	24. 40	2. 22	·1073	6. 24	·01505			
2. 18	23. 0	2. 28	·1080		***			
2. 34	24. 40	2. 31	·1070	8. 0	·01507			
5. 45	20. 0	2. 43	·1078		***			
6. 10	25. 0		***	22. 6	·01458			
7. 6	19. 0	3. 6	·1056	23. 55	·01340			
7. 27	24. 40	3. 19	·1082					
7. 45	20. 0	3. 30	·1074					
9. 35	22. 0	4. 17	·1078					
10. 12	17. 40	4. 22	·1074					
10. 24	19. 20		***					
11. 30	19. 0	5. 20	·1077					
11. 34	16. 40	5. 46:	·1089					
11. 46	10. 30	6. 28	·1066					
12. 15	21. 0	6. 40	·1071					
13. 42	19. 30	6. 55	·1066					
13. 48	24. 10	7. 3	·1077					
14. 5	19. 30		***					
	***	7. 38	·1053					
15. 0	21 ·30		***					
15. 6	15. 5	8. 54	·1078					
15. 26	20. 0	8. 58	·1085					
	***	9. 0	·1072					
19. 30:	19. 0	9. 2	·1083					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 21		Dec. 21						
h m	° ′ ″	h m		h m		h m	°	°
23. 30	22. 26. 0	9. 5	·1074					
			***					
		9. 41	·1083					
		9. 50	·1070					
		10. 0	·1084					
		10. 10	·1071					
		10. 15	·1077					
			***					
		11. 14	·1078					
		11. 27	·1074					
		11. 40	·1084					
		13. 38	·1076					
		13. 50	·1078					
		14. 15	·1062					
		14. 55	·1076					
		15. 20	·1075					
		15. 38	·1082					
			***					
		17. 23	·1079					
		17. 36	·1073					
			***					
		18. 50	·1083					
			***					
		20. 15	·1084					
			***					
		22. 15	·1064					
		23. 10	·1059					
		23. 30	·1064					
Dec. 22		Dec. 22		Dec. 22				
0. 42	22. 24. 20	0. 40	·1066	1. 30	·01176	1. 40	52 ·0	54 ·0
1. 18	22. 15		***	4. 18	·00880	3. 40	53 ·0	56 ·0
1. 25	27. 40	1. 26	·1073	5. 11	·00950	9. 42	53 ·0	54 ·0
	***	2. 8	·1064		***	21. 40	49 ·0	51 ·0
1. 52	22. 20	2. 24	·1055	10. 12	·00940			
2. 8	24. 15	3. 40	·1065	10. 52	·00978			
2. 30	22. 20	4. 15	·1034	11. 13	·00955			
3. 55:	29. 30		***	11. 35	·01003			
4. 39:	24. 0	5. 17	·1054	12. 10	·00950			
5. 17	28. 40	5. 26	·1046	12. 25	·00888			
6. 3:	18. 50	5. 55	·1048	12. 50	·00953			
6. 52	30. 5	6. 24	·1063	23. 30	·01470			
7. 35	12. 15	6. 31	·1048	23. 55	·01465			
7. 57	23. 40	6. 42	·1058					
8. 5	21. 0	7. 13	·1050					
8. 12	26. 0	7. 25	·1036					
8. 22	20. 40		***					
8. 44	25. 15	7. 52	·1058					
9. 46:	16. 30	8. 0	·1043					
10. 3	22. 0	8. 9	·1051					
10. 45	13. 30	8. 15	·1036					
10. 58	8. 15	8. 22	·1044					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 22		Dec. 22						
h m	° ′ ″	h m		h m		h m	°	°
11. 11	22. 20. 10	8. 30	·1037					
11. 35	8. 20	8. 40	·1044					
11. 45	17. 10	8. 50	·1033					
11. 52	8. 0	9. 46	·1062					
12. 10	17. 25	10. 11	·1028					
12. 24	14. 0	10. 42	·1037					
12. 38	20. 10	11. 1	·1063					
13. 42:	10. 20	11. 21:	·1025					
14. 42	15. 0	11. 40	·1086					
15. 40	14. 20	11. 50	·1055					
16. 17	17. 0	11. 58	·1068					
16. 54	14. 10	12. 10	·1045					
17. 28	18. 30	12. 31	·1077					
17. 43	17. 20	13. 25	·1034					
18. 43	18. 0	14. 4	·1056					
20. 30	23. 50	17. 0	·1058					
23. 55	25. 0	17. 50	·1073					
		19. 25	·1059					
		20. 23	·1070					
		20. 49	·1062					
		21. 24	·1060					
		22. 22	·1073					
		23. 55	·1068					
Dec. 23		Dec 23		Dec. 23				
0. 28	22. 24. 50	0. 40	·1062	1. 0	·01433	1 ·40	51 ·0	54 ·0
0. 50	22. 30	1. 35	·1071	3. 7	·01275	3 ·40	53 ·0	56 ·4
3. 7	27. 30	2. 36	·1065	3. 38	·01202	9 ·40	54 ·0	58 ·0
4. 30	20. 40	2. 44	·1069	3. 41	·01200	21 ·40	48 ·5	53 ·4
5. 42	24. 20	3. 0	·1059	7. 28	·00890			
6. 57	25. 30	3. 3	·1064	8. 13	·00920			
7. 18	22. 20	3. 16	·1050	10. 0	·00870			
7. 22	27. 20		***	19. 44	·01415			
7. 32	18. 10	4. 27	·1067	21. 55	·01385			
7. 48	23. 30	6. 2	·1062	23. 16	·01434			
8. 8	17. 10	6. 35	·1050	23. 55	·01415			
8. 18	20. 20	6. 57	·1054					
9. 5	15. 10	7. 17	·1072					
9. 20	16. 35	7. 24	·1051					
9. 50	15. 0	7. 36	·1068					
11. 30	19. 30	7. 57	·1038					
12. 13:	16. 45	8. 12	·1049					
12. 50:	19. 50		***					
14. 0:	13. 5	9. 11	·1065					
16. 27	22. 0	10. 5	·1060					
16. 48	20. 30	12. 40	·1067					
17. 20	23. 40	13. 31	·1079					
18. 10	21. 35	14. 2	·1069					
19. 30	23. 15	14. 24	·1072					
20. 50	21. 0	14. 49	·1066					
	***		***					
21. 33	23. 20	17. 17	·1070					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 23		Dec. 23						
h m	° ′ ″	h m		h m		h m	°	°
23. 58	22. 23. 50	19. 40	·1090					
		20. 45	·1080					
			***					
		21. 14	·1085					
		23. 0	·1070					
		23. 15	·1074					
		23. 48	·1068					
Dec. 24		Dec. 24		Dec. 24				
0. 20	22. 24. 0	0. 30	·1062	1. 0	·01345	1. 40	51 ·5	56 ·0
1. 50:	21. 45	1. 10	·1068	5. 17	·00875	3. 40	54 ·0	57 ·0
2. 44:	24. 30	1. 21	·1065	10. 9	·00802	9. 40	53 ·0	57 ·0
4. 50:	19. 30	2. 31	·1076	13. 57	·00985	23. 25	45 ·8	51 ·0
5. 50:	21. 30	4. 0	·1065	14. 10	·00980			
7. 7	15. 20		***	18. 47	·01380			
7. 34:	20. 10	5. 7	·1060	23. 53	·01338			
8. 11	14. 30	6. 28	·1063					
8. 50	19. 20	6. 25	·1073					
10. 23	18. 15	7. 51	·1069					
10. 42:	20. 5	8. 16	·1079					
11. 30	16. 0	8. 57	·1069					
11. 55:	17. 20	10. 10	·1064					
12. 12:	16. 25	10. 40	·1069					
12. 30	18. 40	13. 45	·1063					
12. 48	17. 50	14. 34	·1074					
13. 3	19. 15	15. 0	·1068					
13. 18:	15. 30	18. 55	·1086					
14. 1:	25. 40	20. 15	·1083					
14. 42:	14. 35	22. 17	·1070					
15. 42	20. 30	23. 50	·1070					
16. 52:	16. 20							
20. 25	23. 20							
21. 18	22. 10							
23. 50	25. 0							
Dec. 25		Dec. 25		Dec. 25				
0. 8	22. 23. 0	0. 0	·1070	0. 5	·01335	11. 30	46 ·0	50 ·0
1. 0:	25. 10	1. 12:	·1081	4. 0	·01415	21. 40	44 ·0	49 ·0
5. 22:	15. 50	2. 0:	·1069	5. 30	·01368			
8. 0:	21. 0	2. 19	·1077	14. 27	·01202			
9. 4:	18. 20	3. 6	·1068	17. 5	·01330			
9. 46	19. 50	6. 1	·1091	19. 0	·01010			
10. 20	19. 0	7. 0	·1080	20. 0	·01330			
11. 30	23. 50	8. 46	·1078	23. 55	·01295			
13. 13:	14. 45	8. 58	·1076					
14. 20:	19. 40	9. 22	·1038					
14. 50:	15. 15	11. 39	·1077					
15. 28	20. 40	11. 53	·1088					
16. 58	18. 20	13. 21	·1076					
17. 24	19. 40	16. 35	·1083					
17. 47	18. 5	17. 10	·1072					
19. 59:	21. 0	18. 46	·1085					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 25		Dec. 25						
h m	° ′ ″	h m		h m		h m	°	°
21. 6:	22. 18. 5	21. 47	·1083					
21. 35:	19. 40	23. 29	·1072					
22. 15:	19. 0		***					
23. 30	24. 0	23. 58	·1065					
Dec. 26		Dec. 26		Dec. 26				
0. 47	22. 20. 20	0. 47	·1065	1. 0	·01252	1. 40	48 ·0	52 ·0
1. 6	18. 0	1. 30	·1076	5. 30	·00745	3. 40	50 ·0	54 ·0
4. 9	21. 30	3. 50	·1073	9. 9	·00702	9. 30	47 ·2	52 ·0
4. 23	23. 25	4. 51:	·1045	14. 27	·01240	21. 45	39 ·0	45 ·0
5. 1	17. 0	5. 53	·1073	21. 0	·01172			
6. 0	20. 0	9. 47	·1077	23. 55	·01202			
9. 48	17. 50	10. 16	·1062					
10. 28:	7. 40	10. 39	·1072					
11. 10	17. 20	19. 20	·1099					
15. 30	21. 0	23. 56	·1080					
21. 27	18. 0							
23. 30	20. 45							
Dec. 27		Dec. 27		Dec. 27				
0. 4	22. 21. 50	0. 9	·1080	0. 30	·01175	1. 40	43 ·0	48 ·0
0. 32	25. 10	1. 12	·1065	1. 30	·01085	3. 40	47 ·0	51 ·0
3. 51	23. 40	2. 55	·1076	4. 12	·00655	9. 40	46 ·5	52 ·0
4. 20:	25. 40	6. 25	·1056	5. 7	·00735	23. 22	44 ·3	50 ·0
6. 7	19. 5	6. 35	·1049	6. 0	·00723			
6. 48	27. 0	6. 43	·1053	8. 30	·00742			
7. 8	22. 5	7. 5:	·1045	11. 30	·00665			
7. 20	22. 40	7. 13:	·1049	15. 0	·00635			
7. 33	18. 0	7. 27	·1044	21. 30	·00845			
7. 53	17. 40	10. 16	·1063	23. 53	·00850			
8. 3	19. 0	10. 27	·1074					
9. 15	15. 40	11. 3	·1064					
10. 0	17. 0	19. 44	·1084					
10. 23	6. 50	20. 42	·1070					
11. 32	17. 0	21. 7	·1084					
12. 43	20. 0	21. 11	·1059					
13. 14	18. 0	21. 29	·1091					
15. 20	19. 10		***					
16. 53	17. 0	21. 50	·1062					
21. 5	20. 5	21. 55	·1079					
21. 8	24. 10	22. 5	·1057					
	***	22. 12	·1072					
21. 18	16. 5	22. 13	·1057					
	***	22. 22	·1071					
22. 23	22. 30	22. 28	·1064					
	***	22. 36	·1078					
22. 46	22. 55	22. 41	·1065					
	***	22. 48	·1078					
23. 25	25. 0	22. 54	·1064					
		23. 1	·1068					
		23. 6	·1060					
		23. 25	·1079					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Dec. 27 h m		h m		h m	°	°
		23. 43	·1064					
		23. 53	·1076					
Dec. 28		Dec. 28		Dec. 28				
0. 3	22. 26. 0	0. 2	·1074	0. 20	·00965	11. 27	43 ·4	52 ·0
0. 20	28. 20	1. 14	·1077		***	21. 40	43 ·5	49 ·0
0. 57	23. 20		***	4. 35	·00825			
	***	2. 3	·1042	5. 5	·00935			
1. 17	28. 40	2. 13	·1050	5. 28	·00940			
1. 40	24. 20		***	6. 8:	·00860			
1. 55	28. 40	2. 53	·1054	6. 28	·01035			
2. 10	25. 0	3. 10	·1063	6. 35	·00998			
2. 43:	28. 5	3. 47	·1063	6. 54	·01040			
3. 0	25. 10	4. 18	·1044	7. 12	·00890			
3. 30	25. 20	4. 30	·1059	7. 22	·00928			
3. 58	19. 0	4. 52	·1041	7. 25	·00910			
4. 42	6. 45	4. 56	·1025	7. 31	·00950			
4. 50	16. 35	5. 11	·1044	7. 47	·00942			
4. 58	12. 30	5. 39	·1042	7. 53	·00772			
5. 10	24. 0	5. 59	·1067	10. 10	·00730			
5 52	13. 20	6. 20	·1035	10. 15	·00762			
6. 9	27. 0	6. 25	·1054	10. 57	·00665			
6. 21	18. 0	6. 30	·1032	14. 38	·00712			
6. 32	22. 24. 10	6. 45	·1031	23. 30	·00995			
7. 2	21. 53. 5	6. 54	·1033					
7. 23	22. 12. 0	7. 13	·1026					
7. 40	1. 40	7. 19	·1037					
7. 50	9. 30	7. 34	·1026					
8. 6	5. 30	7. 44	·1052					
8. 25	27. 0	8. 21	·1075					
8. 35	22. 45	8. 27	·1064					
8. 42	26. 10	8. 35	·1075					
9. 28	19. 50	8. 55	·1075					
9. 59	21. 30	9. 15	·1061					
10. 12:	13. 40	9. 55	·1077					
10. 33	23. 30	10. 10	·1065					
10. 39	21. 10	10. 17	·1105					
10. 55	24. 0	11. 1	·1060					
11. 25	19. 20	12. 19	·1077					
12. 8	21. 45	12. 35	·1064					
	***	13. 0	·1074					
14. 0	20. 20	13. 27:	·1061					
14. 33	26. 30	14. 26	·1078					
15. 0	18. 30	14. 42	·1058					
	***	15. 44	·1073					
21. 53	16. 38	15. 51	·1063					
23. 12	18. 0	15. 57	·1073					
		23. 58	·1062					
Dec. 29		Dec. 29		Dec. 29				
3. 30	22. 16. 30	1. 30	·1062	2. 32	·00900	1. 40	43 ·2	50 ·0
4. 30	16. 0	2. 25	·1067	5. 29	·01060	3. 40	49 ·0	53 ·8

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 29		Dec. 29		Dec. 29				
h m	° ′ ″	h m		h m		h m	°	°
4 46:	22. 17. 40	4. 41	·1053	6. 44	·01040	9. 40	44 ·0	54 ·0
5. 0	17. 0	5. 5	·1046	7. 11	·01067	21. 40	45 ·0	51 ·0
5. 12	19. 0	5. 30	·1028	7. 22	·01110			
6. 10	10. 0	5. 45	·1035	8. 24	·01065			
6. 24	17. 0	5. 54	·1034	8. 35	·01075			
6. 32	15. 0	6. 15	·1057	8. 52	·01080			
6. 40	20. 0	6. 28	·1050	9. 9	·01058			
6. 48	16. 0	6. 33	·1061	10. 24	·00877			
7. 17:	28. 0	6. 45	·1044	11. 30	·00890			
7. 27	23. 50	6. 54	·1060	11. 54	·00830			
7. 36	29. 20	7. 29	·1042	12. 2	·00850			
7. 44	25. 0	7. 41	·1026	12. 14	·00810			
7. 54	27. 0	7. 45	·1033	23. 2	·01372			
8. 21	20. 40	8. 0	·1023	23. 55	·01340			
8. 47	7. 20	8. 18	·1029					
9. 0	11. 5	8. 44	·1004					
9. 22	22. 12. 0	9. 9	·1032					
9. 40	21. 57. 0	9. 22	·1013					
9. 59	22. 15. 20	9. 54	·1080					
10. 13	2. 30	10. 8	·1027					
10. 18	7. 50	10. 15	·1037					
10. 27	4. 0	10. 53	·1009					
10. 50	6. 20	11. 18	·1024					
11. 3	1. 30	11. 26	·1014					
11. 50	25. 0	11. 32	·1030					
12. 0	14. 0	11. 38	·1000					
12. 6	22. 21. 20	11. 48	·1018					
12. 16	21. 59. 10	11. 54	·1005					
12. 27	22. 1. 0	12. 7	·1031					
12. 48	21. 47. 50	12. 13	·1008					
12. 53	50. 30	12. 25	·1043					
13. 2	21. 50. 50	12. 36	·1014					
13. 45	22. 7. 40	13. 33:	·1043					
14. 37	18. 15	14. 29	·1029					
15. 19	5. 10	14. 58	·1020					
15. 41	7. 40	15. 30	·1054					
15. 50	4. 40	15. 45	·1046					
16. 42	9. 40	16. 0	·1054					
16. 53	6. 10	16. 13	·1049					
17. 49	9. 0	17. 26	·1095					
18. 1	12. 0	17. 58	·1069					
18. 28	17. 30	18. 9	·1072					
18. 44	15. 0	18. 33	·1061					
19. 25	20. 5	18. 48	·1067					
19. 38	18. 0	19. 56	·1045					
20. 6	18. 0	20. 6	·1056					
20. 56	27. 0	20. 35	·1053					
21. 7	23. 0	20. 57	·1074					
22. 0	21. 0	21. 5	·1055					
		21. 27	·1060					
		21. 44	·1048					
		22. 2	·1055					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Dec. 29 h m		h m		h m	°	°
		22. 24	·1043					
		23. 55	·1066					
Dec. 30		Dec. 30		Dec. 30				
1. 40	22. 22. 11*	0. 20	·1062	0. 30	·01150	1. 40	48 ·0	52 ·0
3. 35	17. 14*	2. 58	·1070	4. 52	·00820	3. 35	50 ·0	52 ·0
9. 27	23. 52*	5. 17	·1058	5. 30	·00825	9. 27	47 ·0	52 ·0
21. 40	19. 32*	21. 2	·1088	7. 0	·00735	21. 40	41 ·0	47 ·0
		23. 55	·1080	15. 30	·01283			
				17. 30	·01250			
				19. 30	·01275			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		Dec. 30 h m		h m	°	°
				23. 55	·01260			
Dec. 31		Dec. 31		Dec. 31				
1. 30	22. 20. 50	1. 8	·1053	1. 30	·01232	1. 40	43 ·8	48 ·4
22. 0	17. 40	2. 32	·1054	2. 57	·01115	3. 40	48 ·5	50 ·0
23. 55	20. 40	2. 37	·1070	5. 22	·00705	9. 40	44 ·0	49 ·0
		5. 22	·1072	11. 30	·00675	21. 40	42 ·0	47 ·0
		5. 30	·1078	23. 0	·01230			
		6. 5	·1070	23. 55	·01227			
		21. 30	·1087					
		23. 55	·1080					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally to a considerable time before and after that which is recorded.

The following Tables exhibit the times and amounts of the Dislocations of the Vertical Force Curves, for the Years 1848, 1849, 1850, and 1851. For 1848 and 1849, the numbers are given only for those days which are selected for exhibition of the photographic indications in the printed volumes: for 1850 and 1851 the numbers are given for every day on which a record is made.

In every photographic sheet, from the beginning to the first dislocation, the printed numbers represent exactly the ordinates measured for the photographic curves. After the first dislocation, the numbers taken from the curve are corrected by a constant of such an amount as will unite the dislocated parts in one continuous curve. After each successive dislocation a new constant is necessary.

In the following tables, the second column exhibits the times at which the first and successive dislocations occur, and the third column exhibits the times at which the second and successive dislocations occur, or at which the sheet terminates. The last column gives, for the interval of time between the numbers of the second and third columns, the correction with the sign with which it must be applied to the printed numbers in order to reproduce the numbers taken immediately from the sheets.

Table exhibiting the INTERVALS of TIME through which the PHOTOGRAPHIC READINGS of the VERTICAL FORCE MAGNET have received alteration on account of the DISLOCATIONS of CURVES: and the CORRECTIONS which must be applied to the PRINTED NUMBERS in order to reproduce the PHOTOGRAPHIC READINGS.

Year, Month, and Day.	Göttingen Mean Time of Preceding Dislocation.	Göttingen Mean Time of Following Dislocation, or End of Sheet.	Correction Applicable to the Printed Numbers.
1848.	h m	h m	
May 26	18. 45	22. 27	+ 0·00025
	22. 27	24. 36	− 0·00005
	24. 36	25. 16	− 0·00185
27	3. 25	12. 28	− 0·00065
	12. 28	22. 50	+ 0·00030
July 23	1. 40	24. 16	+ 0·00063
	24. 16	24. 55	+ 0·00133
29	24. 5	24. 53	− 0·00018
August 1	2. 47	24. 10	+ 0·00080
	24. 10	24. 40	+ 0·00070
	24. 40	24. 55	+ 0·00050
3	1. 43	23. 37	− 0·00075
8	3. 31	24. 10	+ 0·00027
	24. 10	24. 55	+ 0·00092
21	24. 35	25. 0	+ 0·00087
25	1. 24	24. 13	− 0·00013
September 8	24. 35	25. 20	− 0·00110
18	1. 19	1. 52	− 0·00050
	1. 52	2. 10	− 0·00110
	2. 10	3. 40	− 0·00140
	3. 40	12. 28	− 0·00150
	12. 28	18. 37	− 0·00070
	18. 37	22. 5	− 0·00150
	22. 5	23. 23	− 0·00085
	23. 23	24. 28	− 0·00245
	24. 28	25. 15	− 0·00265
20	3. 35	6. 37	− 0·00020
	6. 37	11. 15	+ 0·00010
	11. 15	20. 15	+ 0·00045
	20. 15	22. 1	+ 0·00030
	22. 1	24. 31	− 0·00060
21	4. 7	4. 32	− 0·00056
	4. 32	10. 28	− 0·00036
	10. 28	10. 35	+ 0·00194
1849.			
January 4	9. 49	23. 6	+ 0·00150
	23. 6	23. 42	− 0·00030
5	9. 42	21. 44	+ 0·00200
	21. 44	23. 16	+ 0·00100
	23. 16	23. 32	+ 0·00060
6	7. 10	9. 42	+ 0·00045
	9. 42	23. 20	+ 0·00100
7	9. 57	23. 21	+ 0·00170
8	2. 13	2. 42	+ 0·00017
	2. 42	3. 37	+ 0·00041

Year, Month, and Day.	Göttingen Mean Time of Preceding Dislocation.	Göttingen Mean Time of Following Dislocation, or End of Sheet.	Correction Applicable to the Printed Numbers.
1848.	h m	h m	
September 21	10. 35	25. 12	+ 0·00214
October 6	0. 80	23. 33	− 0·00030
	23. 33	24. 12	− 0·00055
23	3. 13	25. 5	+ 0·00100
	25. 5	25. 29	+ 0·00007
27	24. 32	25. 11	− 0·00030
30	3. 38	25. 15	+ 0·00052
November 3	24. 34	25. 9	− 0·00030
18	5. 15	12. 25	+ 0·00295
	12. 25	24. 58	+ 0·00260
19	24. 24	25. 2	− 0·00065
21	5. 55	12. 7	+ 0·00330
	12. 7	21. 32	+ 0·00180
	21. 32	25. 17	− 0·00010
December 2	24. 13	25. 15	− 0·00145
8	3. 27	8. 38	+ 0·00050
	8. 38	24. 32	+ 0·00235
10	7. 46	25. 50	+ 0·00395
14	3. 30	6. 40	+ 0·00043
	6. 40	25. 23	+ 0·00077
18	3. 2	4. 5	+ 0·00062
	4. 5	24. 8	+ 0·00080
	24. 8	25. 10	+ 0·00007
20	21. 43	23. 26	− 0·00130
	23. 26	24. 18	− 0·00125
	24. 18	25. 1	− 0·00305
21	4. 52	6. 40	+ 0·00053
	6. 40	21. 38	+ 0·00081
	21. 38	21. 46	− 0·00063
	21. 46	21. 55	− 0·00081
	21. 55	22. 38	− 0·00109
	22. 38	23. 23	− 0·00151
	23. 23	23. 53	− 0·00166
	23. 53	24. 55	− 0·00179
1849.			
January 8	3. 37	9. 42	+ 0·00126
	9. 42	23. 35	+ 0·00314
	23. 35	23. 55	+ 0·00144
9	8. 30	9. 55	+ 0·00318
	9. 55	23. 10	+ 0·00148
	23. 10	23. 45	− 0·00032
10	2. 37	3. 20	+ 0·00020
	3. 20	3. 33	+ 0·00045
	3. 33	8. 28	+ 0·00158
	8. 28	9. 55	+ 0·00480

Year, Month, and Day.	Göttingen Mean Time of Preceding Dislocation.	Göttingen Mean Time of Following Dislocation, or End of Sheet.	Correction Applicable to the Printed Numbers.
1849.	h m	h m	
January 10	9. 55	23. 25	+ 0·00345
	23. 25	23. 50	+ 0·00125
11	9. 25	23. 17	+ 0·00122
	23. 17	23. 47	− 0·00024
12	9. 25	23. 14	+ 0·00120
	23. 14	23. 35	+ 0·00138
	23. 35	23. 43	+ 0·00151
	23. 43	23. 58	+ 0·00247
13	1. 10	3. 46	+ 0·00015
	3. 46	9. 29	+ 0·00035
	9. 29	24. 0	+ 0·00250
14	10. 0	21. 49	− 0·00107
	21. 49	22. 35	− 0·00179
	22. 35	23. 37	− 0·00194
15	9. 44	23 13	+ 0·00030
	23. 13	23. 53	− 0·00185
16	2. 32	2. 53	+ 0·00035
	2. 53	9. 25	+ 0·00067
	9. 25	23. 22	+ 0·00347
	23. 22	23. 52	+ 0·00375
17	9. 25	9. 45	+ 0·00028
	9. 45	23. 25	+ 0·00140
	23. 25	23. 59	− 0·00085
18	10. 7	23. 17	+ 0·00220
	23. 17	23. 48	+ 0·00102
19	3. 34	9. 33	+ 0·00035
	9. 33	22. 15	+ 0·00210
	22. 15	23. 26	+ 0·00190
20	3. 46	9. 54	+ 0·00167
	9. 54	23. 12	+ 0·00455
	23. 12	23. 48	+ 0·00353
21	9. 40	23. 30	+ 0·00155
22	7. 36	9. 50	+ 0·00423
	9. 50	21. 40	+ 0·00268
	21. 40	23. 20	+ 0·00238
	23. 20	23. 52	− 0·00098
23	9. 40	21. 52	+ 0·00265
	21. 52	23. 10	+ 0·00215
29	1. 27	23. 5	− 0·00030
February 3	3. 35	3. 24	+ 0·00060
	3. 24	4. 3	+ 0·00120
	4. 3	23. 32	+ 0·00160
5	22. 48	23. 39	− 0·00085
8	11. 40	23. 54	+ 0·00245
9	22. 37	23. 37	+ 0·00240
10	12. 12	23. 38	+ 0·00190
13	3. 33	23. 56	− 0·00050
15	9. 37	23. 35	+ 0·00300
20	2. 13	23. 52	− 0·00192
22	5. 48	23. 38	+ 0·00375
27	8. 38	23. 42	− 0·00022
28	3. 30	21. 44	+ 0·00027
	21. 44	23. 42	− 0·00015
March 2	8. 45	23. 27	+ 0·00446
3	9. 30	24. 5	+ 0·00255
4	5. 56	23. 57	+ 0·00270
6	7. 42	23. 52	+ 0·00305
March 10	3. 12	23. 58	+ 0·00100
April 5	8. 58	23. 48	+ 0·00200
10	1. 18	22. 13	− 0·00335
11	19. 31	23. 40	− 0·00175
15	22. 50	23. 48	− 0·00220
18	10. 20	24. 58	+ 0·00165
28	8. 50	22. 15	+ 0·00165
30	4. 26	23. 58	+ 0·00170
May 6	22. 33	24. 25	− 0·00195
7	19. 12	23. 42	− 0·00135
8	21. 38	23. 57	− 0·00140
9	18. 33	23. 42	− 0·00137
10	17. 40	24. 8	− 0·00140
12	0. 5	24. 5	− 0·00173
19	2. 25	24. 9	− 0·00215
21	3. 34	23. 58	+ 0·00043
22	21. 55	24. 16	− 0·00295
28	3. 44	24. 16	− 0·00070
June 13	3. 23	4. 22	+ 0·00045
	4. 22	24. 0	+ 0·00103
17	18. 18	23. 58	− 0·00130
July 2	3. 30	24. 49	+ 0·00078
5	20. 22	24. 22	− 0·00050
8	22. 59	24. 25	− 0·00045
11	8. 13	24. 24	+ 0·00245
25	3. 2	3. 8	+ 0·00038
	3. 8	4. 16	+ 0·00090
	4. 16	4. 53	+ 0·00115
	4. 53	6. 12	+ 0·00143
	6. 12	20. 35	+ 0·00163
	20. 35	24. 27	− 0·00053
26	1. 48	3. 2	+ 0·00045
	3. 2	3. 8	+ 0·00105
	3. 8	3. 30	+ 0·00128
	3. 30	5. 40	+ 0·00305
	5. 40	5. 47	+ 0·00325
	5. 47	19. 3	+ 0·00357
	19. 3	24. 37	+ 0·00342
27	4. 13	6. 5	+ 0·00117
	6. 5	19. 0	+ 0·00249
	19. 0	24. 42	− 0·00044
28	4. 15	5. 0	+ 0·00020
	5. 0	5. 54	+ 0·00060
	5 54	23. 43	+ 0·00230
30	2. 32	4. 36	+ 0·00180
	4. 36	4. 43	+ 0·00205
	4. 43	24. 10	+ 0·00475
31	7. 13	24. 17	+ 0·00085
August 3	15. 58	24. 33	− 0·00080
9	18. 8	23. 46	− 0·00093
23	17. 28	25. 3	− 0·00085
September 17	4. 5	24. 13	+ 0·00080
20	20. 48	24. 22	− 0·00055

Jan. 24 to 29. The Magnet was under adjustment.
Feb. 3. Workmen were employed in the Magnetic Observatory.
Feb. 13. This displacement occurred on the occasion of observing the time of vertical vibration, for determination of the scale-constant.
Feb. 20. A workman employed in the Magnetic Observatory.
July 25 to 28, and 30. Workmen busy in the Magnetic Observatory.

Year, Month, and Day.		Göttingen Mean Time of Preceding Dislocation.	Göttingen Mean Time of Following Dislocation, or End of Sheet.	Correction Applicable to the Printed Numbers.
1849.		h m	h m	
October	1	23. 5	24. 26	− 0·00120
	2	0. 59	23. 58	− 0·00045
	5	6. 4	22. 53	+ 0·00032
		22. 53	24. 5o	+ 0·00012
	6	5. 45	24. 5o	+ 0·00038
1850.				
January	1	3. 22	11. 58	− 0·00020
		11. 58	23. 41	+ 0·00125
	4	16. 47	24. 34	− 0·00025
	5	18. 45	23. 33	− 0·00033
	6	14. 27	25. 13	− 0·00105
	10	5. 42	7. 27	+ 0·00025
		7. 27	24. 17	+ 0·00125
	13	10. 12	25. 1	− 0·00040
	17	4. 2	5. 56	+ 0·00020
		5. 56	24. 25	+ 0·00175
	18	7. 13	24. 11	+ 0·00150
	23	10. 5o	25. o	+ 0·00135
	28	2. 25	24. 3o	− 0·00150
	29	21. 43	24. 47	− 0·00058
February	2	4. 11	23. 48	+ 0·00030
	3	7. 15	24. 59	+ 0·00175
	7	7. 47	23. 5o	+ 0·00168
	10	22. 7	24. 55	− 0·00115
	11	22. 24	23. 55	− 0·00122
	20	9. 23	13. 7	+ 0·00052
		13. 7	23. 5o	+ 0·00355
March	3	21. 51	22. 2	− 0·00102
		22. 2	24. 57	− 0·00204
	4	20. 54	24. 11	− 0·00105
	7	23. 25	23. 5o	− 0·00120
	8	21. 25	24. 5	− 0·00105
	10	0. 12	23. 41	− 0·00127
	14	22. 15	23. 15	− 0·00100
	15	16. 56	23. 48	− 0 00105
	17	18. 5o	23. 41	− 0·00045
	19	7. 12	23. 58	+ 0·00080
	20	8. 31	23. 52	+ 0·00076
	23	4. 27	23. 55	− 0·00100
	31	20. 55	24. 5	− 0·00085
April	2	21. 8	23. 59	− 0·00133
	7	9. 20	24. 2	+ 0·00090
	9	22. 25	23. 55	− 0·00075
	12	21. 21	24. 3	− 0·00137
	26	6. 35	24. 3	+ 0·00065
	28	20. 3o	24. 3o	− 0·00088
	3o	7. 22	24. 2	+ 0·00045
1849.				
October	18	3. 43	24. 13	+ 0·00020
November	9	8. 3	24. 35	+ 0·00163
December	6	2. 22	24. 44	− 0·00055
1850.				
May	1	17. 31	24. 45	− 0·00060
	4	4. 14	23. 35	− 0·00079
	20	0. 5	3. 4	− 0·00100
		3. 4	19. 25	− 0·00030
		19. 25	20. 36	− 0·00060
		20. 36	24. 7	− 0·00090
June	29	13. 13	23. 47	− 0·00079
July	1	0. 57	24. 12	+ 0·00357
	6	5. 37	23. 33	+ 0·00083
	8	5. 12	23. 54	+ 0·00147
	12	3. 28	24. 55	+ 0·00060
	18	21. 55	24. 15	− 0·00075
	19	3. 3o	9. 42	− 0·00020
		9. 42	19. 22	− 0·00070
		19. 22	20. 22	− 0·00220
		20. 22	24. 20	− 0·00295
	20	6. 5o	24. 2	− 0·00130
	21	1. 7	7. 18	+ 0·00025
		7. 18	25. 6	+ 0·00055
August	15	22. 3o	24. o	− 0·00195
	19	7. 31	24. 27	+ 0·00110
	21	3. 58	24. 17	− 0·00032
September	20	10. 1	24. 3o	+ 0·00032
	27	3. o	24. 3o	− 0·00285
October	31	5. 32	24. 15	+ 0·00037
November	6	6. 35	23. 33	+ 0·00153
	8	6. 52	24. 15	+ 0·00138
	16	2. 33	23. 25	+ 0·00137
	21	22. 55	24. 3o	− 0·00070
	22	11. 12	24. 27	+ 0·00015
	24	1. 40	23. 43	− 0·00090
December	3	6. 25	24. 25	+ 0·00265
	12	2. 35	3. 3o	+ 0·00240
		3. 3o	24. 25	+ 0·00327
	25	6. 43	23. 18	+ 0·00350

Correction Applicable to the Printed Numbers.
+ 0·00020
+ 0·00163
− 0·00055
− 0·00060
− 0·00079
− 0·00100
− 0·00030
− 0·00060
− 0·00090
− 0·00079
+ 0·00357
+ 0·00083
+ 0·00147
+ 0·00060
− 0·00075
− 0·00020
− 0·00070
− 0·00220
− 0·00295
− 0·00130
+ 0·00025
+ 0·00055
− 0·00195
+ 0·00110
− 0·00032
+ 0·00032
− 0·00285
+ 0·00037
+ 0·00153
+ 0·00138
+ 0·00137
− 0·00070
+ 0·00015
− 0·00090
+ 0·00265
+ 0·00240
+ 0·00327
+ 0·00350

May 20. Workmen employed in the Magnetic Observatory.

Year, Month, and Day.		Göttingen Mean Time of Preceding Dislocation.	Göttingen Mean Time of Following Dislocation, or End of Sheet.	Correction Applicable to the Printed Numbers.
1851.		h m	h m	
January	2	2. 40	24. 55	+ 0·00230
	3	2. 43	25. 20	+ 0·00222
	8	7. 15	11. 25	+ 0·00303
		11. 25	24. 24	+ 0·00273
	9	6. 20	24. 25	+ 0·00205
	14	8. 42	24. 18	+ 0·00288
	16	6. 14	24. 15	+ 0·00272
	21	5. 29	10. 12	+ 0·00220
		10. 12	24. 0	− 0·00060
	22	6. 45	23. 50	+ 0·00222
		23. 50	24. 58	+ 0·00192
	27	5. 15	24. 20	+ 0·00122
	28	4. 25	24. 15	+ 0·00145
	30	5. 30	24. 1	+ 0·00202
February	8	5. 43	23. 3	+ 0·00148
	14	12. 29	24. 27	+ 0·00255
	16	21. 31	24. 5	− 0·00100
	19	7. 15	24. 15	+ 0·00181
	20	9. 35	24. 35	+ 0·00150
	22	20. 55	22. 45	− 0·00130
	26	21. 5	24. 15	− 0·00168
March	8	5. 53	23. 30	+ 0·00177
	14	11. 1	24. 15	+ 0·00169
	16	20. 18	24. 40	− 0·00139
	21	6. 43	24. 30	+ 0·00210
	24	5. 7	24. 29	+ 0·00042
	26	21. 50	24. 25	− 0·00200
	29	10. 1	23. 37	+ 0·00170
	30	22. 50	25. 0	− 0·00100
	31	21. 50	24. 35	− 0·00050
April	6	20. 3	25. 11	− 0·00170
	8	3. 38	24. 28	+ 0·00029
	12	11. 30	22. 19	+ 0·00226
	13	22. 25	24. 25	− 0·00130
	16	8. 8	23. 47	+ 0·00195
	18	7. 37	24. 32	+ 0·00149
	21	21. 10	25. 15	− 0·00115
	22	16. 20	24. 39	− 0·00112
	25	16. 12	19. 30	− 0·00020
		19. 30	24. 5	− 0·00125
	27	21. 0	25. 0	− 0·00083
May	3	18. 15	23. 19	− 0·00078
	4	16. 40	24. 41	− 0·00078
	8	4. 38	23 10	+ 0·00122
	12	13. 52	24. 37	− 0·00092
	16	18. 50	21. 23	− 0·00070
		21. 23	24. 13	− 0·00100
	20	4. 40	4. 55	+ 0·00030
		4. 55	5. 15	+ 0·00100
		5. 15	5. 20	+ 0·00130
		5. 20	19. 50	+ 0·00210
		19. 50	24. 38	+ 0·00140
	21	4. 12	4. 38	+ 0·00020
		4. 38	5. 13	+ 0·00060
		5. 13	19. 58	+ 0·00080
		19. 58	24. 5	+ 0·00040
	22	4. 58	24. 8	+ 0·00048
	23	17. 35	24. 54	− 0·00070
	26	14. 28	22. 45	− 0·00073
		22. 45	23. 46	− 0·00086
June	8	5. 32	24. 42	+ 0·00245
	22	11. 24	15. 20	− 0·00026
		15. 20	24. 16	− 0·00077
July	11	5. 7	24. 42	+ 0·00032
August	4	8. 52	24. 38	+ 0·00065
	5	6. 35	24. 13	+ 0·00087
	8	5. 27	6. 7	+ 0·00020
		6. 7	7. 12	+ 0·00036
		7. 12	24. 15	+ 0·00056
	18	11. 32	16. 8	− 0·00023
		16. 8	23. 58	− 0·00100
September	2	2. 41	24. 28	− 0·00310
	5	19. 37	23. 57	− 0·00042
	11	21. 25	24. 5	− 0·00145
October	1	21. 55	22. 35	− 0·00440
		22. 35	24. 0	− 0·00473
November	2	21. 30	25. 5	− 0·00400
	10	21. 15	22. 30	− 0·00069
		22. 30	23. 10	− 0·00129
		23. 10	25. 0	− 0·00182
	24	4. 3	24. 35	+ 0·00050
December	3	7. 21	24. 6	+ 0·00120
	5	3. 25	24. 8	+ 0·00040
	17	5. 51	23. 5	+ 0·00178
		23. 5	24. 35	+ 0·00111
	20	5. 20	23. 24	+ 0·00020
	29	2. 33	24. 29	− 0·00165

May 16, 20, 21, 22. Workmen were employed in the Magnetic Observatory.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1851.

The Dipping Needle is described, and the mode of using it is explained, in the *Magnetical and Meteorological Observations*, 1847, Introduction, page xliii, and in the corresponding parts of several preceding Volumes.

The needle A 2 was used throughout the year.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1851.

Day and Approximate Hour, 1851.		Magnetic Dip.	Day and Approximate Hour, 1851.		Magnetic Dip.	Day and Approximate Hour, 1851.		Magnetic Dip.
	d h	° ′		d h	° ′		d h	° ′
January	5. 21	68. 34 ·75	May	5. 9	68. 40 ·00	August	31. 21	68. 43 ·00
	6. 3	68. 44 ·50		11. 21	68. 41 ·75			
	6. 9	68. 37 ·50		12. 3	68. 41 ·75	September	7. 21	68. 36 ·25
	12. 21	68. 32 ·50		12. 9	68. 37 ·50		8. 3	68. 33 ·25
	13. 3	68. 44 ·25		18. 21	68. 38 ·00		8. 9	68. 41 ·00
	13. 9	68. 45 ·00		19. 3	68. 40 ·00		14. 21	68. 45 ·75
	19. 21	68. 37 ·50		19. 9	68. 36 ·75		15. 3	68. 41 ·50
	20. 3	68. 43 ·75		25. 21	68. 42 ·50		15. 9	68. 42 ·75
	20. 9	68. 39 ·00		26. 3	68. 35 ·50		21. 21	68. 44 ·00
	26. 21	68. 40 ·75		26. 9	68. 37 ·50		22. 3	68. 42 ·00
	27. 3	68. 38 ·00					22. 9	68. 45 ·25
	27. 9	68. 37 ·50	June	1. 21	68. 40 ·50		28. 21	68. 37 ·50
				2. 3	68. 36 ·25		29. 3	68. 41 ·75
February	2. 21	68. 38 ·25		2. 9	68. 37 ·50		29. 9	68. 30 ·50
	3. 3	68. 41 ·75		8. 21	68. 38 ·00			
	3. 9	68. 39 ·00		9. 3	68. 40 ·50	October	5. 21	68. 45 ·50
	9. 21	68. 44 ·25		9. 9	68. 37 ·00		6. 3	68. 41 ·00
	10. 3	68. 23 ·75		15. 21	68. 36 ·75		6. 9	68. 35 ·00
	10. 9	68. 38 ·75		16. 3	68. 40 ·00		12. 21	68. 40 ·75
	16. 21	68. 39 ·25		16. 9	68. 38 ·00		13. 3	68. 48 ·00
	17. 3	68. 32 ·75		22. 21	68. 43 ·00		13. 9	68. 40 ·50
	17. 9	68. 42 ·25		23. 3	68. 42 ·50		19. 21	68. 36 ·75
	23. 21	68. 52 ·50		23. 9	68. 45 ·50		20. 3	68. 40 ·00
	24. 3	68. 41 ·25		29. 21	68. 39 ·25		20. 9	68. 26 ·25
	24. 9	68. 40 ·50		30. 3	68. 37 ·50		26. 21	68. 48 ·75
				30. 9	68. 42 ·50		27. 3	68. 39 ·25
March	2. 21	68. 41 ·25					27. 9	68. 40 ·50
	3. 3	68. 39 ·00	July	6. 21	68. 42 ·50			
	3. 9	68. 43 ·75		7. 3	68. 40 ·50	November	2. 21	68. 38 ·75
	16. 21	68. 37 ·00		7. 9	68. 36 ·75		3. 3	68. 38 ·75
	17. 3	68. 51 ·25		13. 21	68. 39 ·25		3. 9	68. 40 ·75
	17. 9	68. 41 ·75		14. 3	68. 38 ·75		9. 21	68. 40 ·00
	23. 21	68. 35 ·50		14. 9	68. 38 ·75		10. 3	68. 38 ·75
	24. 3	68. 39 ·25		20. 21	68. 33 ·00		10. 9	68. 41 ·25
	24. 9	68. 37 ·50		21. 3	68. 36 ·25		16. 21	68. 45 ·50
	30. 21	68. 40 ·25		21. 9	68. 36 ·75		17. 3	68. 40 ·00
	31. 3	68. 42 ·00		27. 21	68. 43 ·75		17. 9	68. 38 ·75
	31. 9	68. 41 ·75		28. 3	68. 37 ·50		23. 21	68. 40 ·50
				28. 9	68. 38 ·00		24. 3	68. 38 ·00
April	6. 21	68. 41 ·25					24. 9	68. 40 ·50
	7. 3	68. 38 ·00					30. 21	68. 38 ·75
	7. 9	68. 41 ·75	August	3. 21	68. 33 ·75			
	13. 21	68. 41 ·25		4. 3	68. 39 ·25			
	14. 3	68. 44 ·00		4. 9	68. 44 ·25	December	1. 3	68. 43 ·75
	14. 9	68. 41 ·25		10. 21	68. 41 ·25		7. 21	68. 39 ·00
	20. 21	68. 41 ·25		11. 3	68. 40 ·00		8. 3	68. 38 ·75
	21. 3	68. 43 ·00		11. 9	68. 42 ·00		8. 9	68. 39 ·00
	21. 9	68. 44 ·25		17. 21	68. 49 ·00		14. 21	68. 42 ·50
	27. 21	68. 49 ·25		18. 3	68. 46 ·25		15. 3	68. 39 ·25
	28. 3	68. 45 ·00		18. 9	68. 45 ·00		15. 9	68. 40 ·00
	28. 9	68. 42 ·50		24. 21	68. 47 ·50		21. 21	68. 37 ·50
				25. 3	68. 49 ·25		28. 21	68. 38 ·75
May	4. 21	68. 40 ·50		25. 9	68. 41 ·75		29. 3	68. 40 ·50
	5. 3	68. 40 ·25		30. 3	68. 36 ·50		29. 9	68. 39 ·25

February 9d. 21h and 10d. 3h. The weather was very damp, and the needle was sluggish.
February 23d. 21h and October 20d. 9h. The observations were taken with great care.
March 17. Rain was falling: the circumstances were unfavourable.
No subsequent use has been made of the results from the observations taken Feb. 10d. 3h; 17d. 3h; 23d. 21h; March 17d. 3h; and Oct. 20d. 9h.
The observations on Sep. 7d. 21h; 8d. 3h; 8d. 9h; and 21d. 21h, were made by Mr. P. Morton.

MEAN MONTHLY MAGNETIC DIP, at the ROYAL OBSERVATORY, GREENWICH, in the Year 1851.

1851, Month.	Mean Monthly Dip at 21h.	Number of Observations.	Mean Monthly Dip at 3h.	Number of Observations.	Mean Monthly Dip at 9h.	Number of Observations.
	° ′		° ′		° ′	
January	68. 36 ·38	4	68. 42 ·62	4	68. 39 ·75	4
February	68. 40 ·58	3	68. 41 ·50	2	68. 40 ·13	4
March	68. 38 ·50	4	68. 40 ·08	3	68. 41 ·19	4
April	68. 43 ·25	4	68. 42 ·50	4	68. 42 ·44	4
May	68. 40 ·69	4	68. 39 ·38	4	68. 37 ·94	4
June	68. 39 ·60	4	68. 39 ·70	5	68. 39 ·10	5
July	68. 39 ·63	4	68. 38 ·25	4	68. 37 ·56	4
August	68. 42 ·90	5	68. 42 ·21	5	68. 43 ·25	4
September	68. 40 ·87	4	68. 39 ·62	4	68. 39 ·87	4
October	68. 42 ·94	4	68. 42 ·06	4	68. 38 ·70	3
November	68. 40 ·70	5	68. 38 ·88	4	68. 40 ·31	4
December	68. 39 ·44	4	68. 40 ·56	4	68. 39 ·42	3
Mean	68. 40 ·46	49	68. 40 ·78	47	68. 39 ·97	47

On September 5d, at 0h, Mr. Morton determined the dip to be 68°. 36′ ·5 from observations of the inclination of needle A 2, in two planes at right angles to each other.

On September 23d. 22h, Mr. Glaisher, with a three-inch needle, determined the dip to be 68°. 37′ ·5, whilst Mr. Henderson, in an adjoining apartment, with a nine-inch needle (A 2), determined it to be 68°. 36′ ·25.

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1851.

The Apparatus used for observation of the Deflexion of a Magnet is described, and the method of computing the results is explained, in the Greenwich *Magnetical and Meteorological Observations*, 1847, Introduction, page xlv, and in preceding Volumes. The magnet, marked $\frac{D}{XX}$ (the same which was used in preceding years), has been employed to produce the deflexion of another magnet, marked $\frac{H}{23}$ (of nearly the same dimensions): and the vibrations then observed are those of $\frac{D}{XX}$.

The following is the explanation of the notation used:—

m = the magnetic moment of the deflecting magnet $\frac{D}{XX}$.

X = the absolute measure of horizontal magnetic force.

K = the moment of inertia of $\frac{D}{XX}$ with its stirrup and pulley as suspended for vibration = 3·92866: the unit of length being the English foot, and the unit of weight being the English grain.

T = the time of vibration in seconds of mean solar time.

Then when the natural sine of the observed deflexion (the Deflecting Magnet being in the Lateral Position) is expressed by the formula

$$\frac{a}{(\text{distance})^3} + \frac{b}{(\text{distance})^5}$$

we have for the formula of computation

$$\frac{m}{X} = \tfrac{1}{2}\, a$$

$$m\ X = \frac{\pi^2 K}{T^2}$$

from which m and X are found.

The natural sine of the observed deflexion when the Deflecting Magnet is in the Axial Position is treated in the same manner as the former, for expressing it by the formula

$$\frac{a_1}{(\text{distance})^3} + \frac{b_1}{(\text{distance})^5}$$

but no further use is made of these deflexions.

For the determination of the Absolute Measure of Horizontal Force on those days on which Vibrations, unaccompanied by Deflexions, were observed: it is assumed that the quantity m (which is peculiar to the magnet) changes at a uniform rate from one observation of deflexion to the next; and the comparison of its interpolated value with the value of $m\ X$ given by the vibration determines the value of X.

ABSTRACT of the OBSERVATIONS of DEFLEXION of a MAGNET for ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1851.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distance of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibration of Deflecting Magnet.	Number of Vibrations.	Temperature.
January 4	Lateral	1. 0	44·4	11. 56. 0·07	5·117	100	43·5
	Axial			6. 21. 10·39			
	Lateral	1. 6		3. 32. 20·20			
	Axial			1. 47. 45·90	5·112	100	44·8
February 8	Lateral	1. 0	48·4	11. 57. 48·09	5·118	100	48·7
	Axial			6. 27. 51·28			
	Lateral	1. 6		3. 31. 21·69			
	Axial			1. 47. 29·60	5·113	100	48·2
March 13	Lateral	1. 0	48·5	11. 54. 51·04	5·118	100	48·9
	Axial			6. 28. 43·59			
	Lateral	1. 6		3. 30. 4·81			
	Axial			1. 47. 31·05	5·113	100	49·8
June 24	Lateral	1. 0	68·0	11. 47. 30·98	5·072	100	66·3
	Axial			6. 27. 31·93			
	Lateral	1. 6		3. 29. 25·25			
	Axial			1. 46. 14·40	5·133	100	68·2
July 19	Lateral	1. 0	61·4	11. 52. 10·66	5·137	100	61·0
	Axial			6. 27. 35·40			
	Lateral	1. 6		3. 29. 57·55			
	Axial			1. 47. 14·30	5·134	100	60·5
August 12	Lateral	1. 0	76·7	11. 48. 52·25	5·130	100	74·0
	Axial			6. 29. 45·53			
	Lateral	1. 6		3. 28. 44·64			
	Axial			1. 46. 19·22	5·140	100	77·0
September 15	Lateral	1. 0	62·8	11. 46. 34·22	5·142	128	62·0
	Axial			6. 27. 19·10			
	Lateral	1. 6		3. 29. 15·80			
	Axial			1. 47. 10·69	5·115	106	65·0
October 20	Lateral	1. 0	62·7	11. 49. 30·70	5·140	100	62·4
	Axial			6. 27. 54·09			
	Lateral	1. 6		3. 28. 57·78			
	Axial			1. 46. 9·71	5·139	100	62·4
November 10	Lateral	1. 0	46·7	11. 46. 15·90	5·133	100	46·5
	Axial			6. 27. 16·00			
	Lateral	1. 6		3. 29. 42·09			
	Axial			1. 46. 16·72	5·133	100	48·0
December 11	Lateral	1. 0	48·1	11. 48. 19·45	5·132	100	46·5
	Axial			6. 25. 26·11			
	Lateral	1. 6		3. 28. 19·43			
	Axial			1. 47. 23·83	5·135	100	47·1

June 24. The observations for determining the time of vibration before taking the deflexion observations were irregular, and the result is discordant from all other results; as the times of vibration before and after are usually nearly alike, and as no suspicion rested on the latter, the adopted time of vibration in the calculation of the Absolute Measure of Horizontal Force is that found after the deflexions were taken.

October 20. The suspension-skein of the Declination Magnet broke during these experiments. In deducing the results for this day no correction has been applied for change of position of magnet during the successive observations.

Computation of the Values of Absolute Measure of Horizontal Force.

Month and Day, 1851.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a_1.	Apparent Value of b_1.	Adopted Value of a, assuming the Mean Value of b as applicable to all.	Log. $\frac{1}{2}a = \text{Log.}\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. $m\,X$.	Value of X.	Value of m.
								s			
January 4	+0·20678	−0·00280	−0·00105	+0·10187	+0·00878	+0·20696	9·01486	5·115	0·17084	3·784	0·3916
February 8	+0·20748	−0·00019		+0·09990	+0·01268	+0·20823	9·01752	5·115	0·17084	3·773	0·3928
March 13	+0·20608	+0·00037		+0·09970	+0·01314	+0·20732	9·01561	5·116	0·17068	3·784	0·3919
June 24	+0·20637	−0·00201		+0·09772	+0·01477	+0·20553	9·01182	5·133	0·16780	3·784	0·3889
July 19	+0·20626	−0·00058		+0·09942	+0·01315	+0·20667	9·01425	5·135	0·16746	3·772	0·3898
August 12	+0·20486	−0·00011		+0·09734	+0·01579	+0·20568	9·01216	5·135	0·16746	3·781	0·3888
September 15	+0·20630	−0·00221		+0·09942	+0·01301	+0·20529	9·01136	5·129	0·16848	3·789	0·3889
October 20	+0·20510	−0·00017		+0·09750	+0·01510	+0·20587	9·01258	5·139	0·16678	3·777	0·3888
November 10	+0·20713	−0·00312		+0·09814	+0·01427	+0·20531	9·01136	5·133	0·16780	3·786	0·3887
December 11	+0·20424	+0·00035		+0·10024	+0·01165	+0·20446	9·01043	5·129	0·16848	3·793	0·3890

Values of Absolute Measure of Horizontal Force, from Observations of Vibration of the Deflecting Magnet $\frac{D}{XX}$, unaccompanied by Deflexion.

Month and Day, 1851.	Adopted time of Vibration.	Temperature.	Log. $m\,X$.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.
	s	°			
February 21	5·124	47·0	0·16932	0·3925	3·763
30	5·124	47·0	0·16932	0·3920	3·767
March 8	5·118	47·5	0·17034	0·3920	3·776
April 5	5·122	47·5	0·16966	0·3912	3·778
May 26	5·123	56·5	0·16950	0·3898	3·790
30	5·128	66·3	0·16864	0·3896	3·785
July 17	5·123	66·5	0·16950	0·3897	3·791
August 21	5·136	74·0	0·16728	0·3886	3·783
September 10	5·131	67·0	0·16814	0·3888	3·788
November 19	5·123	36·5	0·16950	0·3888	3·799
December 29	5·126	38·0	0·16898	0·3892	3·791

The number of observed vibrations employed in each determination was 100.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1851.

The day in the first column of the following tables is to be understood, generally, as defined in civil reckoning.

The barometer is described in the *Greenwich Magnetical and Meteorological Observations*, 1847, Introduction, page xlviii, and in the corresponding parts of several preceding volumes. The barometer has been read at 21^h, 0^h, 3^h, 9^h (Astronomical), on every day, excepting on Sundays and on Good Friday and Christmas Day, on which days a smaller number of observations has been taken. Every reading has been reduced to the reading which would have been obtained at the temperature 32° of the mercury and scale, by application of the correction given in table II (pages 82 to 87) of the Report of the Committee of Physics of the Royal Society. The mean of the reduced readings has then been taken for each civil day, and finally converted into mean daily reading by application of the correction inferred from Mr. Glaisher's paper in the *Philosophical Transactions*, 1848, part I.

The positions of all the thermometers are described in the Introduction, 1847, page lxix.

The thermometers used for determining the "highest and lowest readings of the dry thermometers" are self-registering thermometers, as described in the Introduction, 1847, page lxvii; and their index-errors have been found weekly, in the manner there explained. The readings given in these tables are corrected for the index-errors.

The dry-bulb and wet-bulb thermometers are described in the Introduction, 1847, page xlix; their scales have been verified from time to time, in the manner there described.

The mean daily reading of the dry thermometer is inferred from observations taken at the same hours as the observations of the barometer; the mean of these is corrected by a quantity given in the *Phil. Trans.*, 1848, part I.

The dew-point has been inferred exclusively from simultaneous observations of the dry-bulb and wet-bulb thermometers. In order to find the difference between the dry-bulb reading and the dew-point, the difference between the dry-bulb and the wet-bulb readings has been multiplied by a factor taken from the following table (deduced by Mr. Glaisher from comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, to the end of the year 1844).

TABLE OF FACTORS, BY WHICH THE DIFFERENCE OF READINGS OF THE DRY-BULB AND WET-BULB THERMOMETERS IS TO BE MULTIPLIED, IN ORDER TO PRODUCE THE DIFFERENCE BETWEEN THE READINGS OF THE DRY-BULB AND DEW-POINT THERMOMETERS.

Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.
°		°		°		°		°		°	
20	8·5	32	3·1	44	2·3	56	1·9	68	1·6	80	1·5
21	8·5	33	2·8	45	2·3	57	1·9	69	1·5	81	1·5
22	8·5	34	2·6	46	2·3	58	1·9	70	1·5	82	1·5
23	8·5	35	2·6	47	2·2	59	1·8	71	1·5	83	1·5
24	7·3	36	2·6	48	2·2	60	1·8	72	1·5	84	1·5
25	6·4	37	2·5	49	2·2	61	1·8	73	1·5	85	1·5
26	6·1	38	2·5	50	2·1	62	1·7	74	1·5	86	1·5
27	6·1	39	2·5	51	2·1	63	1·7	75	1·5	87	1·5
28	5·7	40	2·4	52	2·0	64	1·7	76	1·5	88	1·5
29	5·0	41	2·4	53	2·0	65	1·6	77	1·5	89	1·5
30	4·6	42	2·4	54	2·0	66	1·6	78	1·5	90	1·5
31	3·7	43	2·4	55	2·0	67	1·6	79	1·5		

The dew-point being thus found for each individual observation, the mean is taken for each day (as defined from midnight to midnight), and this mean is corrected by application of the elements in the *Phil. Trans.*, 1848, part I.

The thermometers exhibiting the highest temperature in the sunshine, the lowest temperature on the grass, and the highest and lowest temperatures of the water of the Thames, are described in the Introduction, 1847, pages lxix and lxxi. They are occasionally verified. That for the highest temperature in the sunshine was out of order on January 6, 18, 19, 26, 31; February 16; from February 22 to March 9; on March 16, 23, 30; April 6, 13, 20, 27; May 17, 18, 24, 28; June 14, 22, 29, 30; July 6, 13, 20, 24, 27; August 3, 10, 17, 22, 23, 24, 26; and from August 30 to December 9: after this time the self-registering thermometer used for solar radiation is a mercurial thermometer with a blackened bulb, of a new construction, invented by Messrs. Negretti and Zambra; its peculiarity consists in the insertion of a detached piece of glass within the thermometer tube, near the bulb, the tube being bent at the place to prevent the enclosed piece of glass from moving down the tube; by this construction the mercury passes the piece of glass on an increase of heat, but cannot repass it when the heat declines, and thus indicates the highest temperature. Since the introduction of this instrument, no

observation has been lost from its derangement. The thermometer for maximum temperature of the air was always replaced by a similar instrument whenever it became deranged.

The thermometer for the maximum temperature of the water of the Thames was out of order from April 13 to April 16; June 29 and 30; and from July 1 to July 25; and that for minimum temperature of the water of the Thames on June 29 and 30; from July 5 to 7; and July 13 to 24.

The mean daily value of the difference between dew-point temperature and air temperature is the difference between the two numbers in the sixth and seventh columns. The Greatest and Least are the greatest and least among the differences corresponding to the times of observation in the civil day, and they probably differ little from the absolute maxima and minima.

The difference between the mean temperature for the day and the mean for the same day of the year on an average of ten years, is found by comparison with a table of results deduced by Mr. Glaisher from ten years' observations, made in the Magnetic and Meteorological Department of the Royal Observatory from the beginning of 1841 to the end of 1850. For all ordinary week days, to the end of 1847, the mean adopted in these results was the mean of the twelve readings made at equidistant intervals of two hours. For Sundays and exceptional days in those years the maximum and minimum readings were taken, and their mean was corrected for a difference exhibited in the Introductions to the various volumes of the *Magnetical and Meteorological Observations*. For 1848, 1849, and 1850, the mean adopted was the mean of four observations daily, corrected for diurnal range.

Osler's Anemometer is described in the Introduction, 1847, page lxxi. Little explanation of the results deduced from it appears to be necessary. In the columns of direction, the letter C is occasionally used for Calm. It may be understood generally that the greatest pressure occurred in gusts of short duration.

Whewell's Anemometer is described in the Introduction, 1847, page lxxii. The amount of movement of air here exhibited is to be understood as from 22^h to 22^h (10^h A.M. to 10^h A.M.), the numbers being placed opposite to the day preceding the civil day on which the instrument is read.

The register of rain is read at 9^h P.M. from Crosley's Rain-gauge, described in page lxxv of the Introduction, 1847. If, however, there appears to be any doubt as to the correctness of the results, reference is made to the Rain-gauge No. 2, described in the same place.

For understanding the divisions of time under the heads of Electricity and Weather, the following remarks are necessary:—The day is divided by columns into two parts (from midnight to noon, and from noon to midnight), and each of these parts is roughly subdivided into two or three parts by colons (:). Thus, when there is a single colon in the first column, it denotes that the remarks before it apply (roughly) to the interval from midnight to 6 A.M., and those following it to the interval from 6 A.M. to noon. When there are two colons in the first column, it is to be understood that the twelve hours are divided into three nearly equal parts of four hours each. And similarly for the second column.

The Electrical Apparatus is described in page lxxvii of the Introduction, 1847. The following is the explanation of the notation employed, it being premised that the quality of the Electricity is always to be supposed positive when no indication of quality is given:

g cur. denotes *galvanic currents*	N denotes *negative*	s denotes *strong*	v denotes *variable*
m .. *moderate*	P .. *positive*	sp .. *sparks*	w .. *weak*

The duplication of the letter denotes an intensity of the modification described; thus s s is very strong, v v very variable.

The Clouds and Weather are described generally by Howard's Nomenclature; the figure denotes the proportion of sky covered by clouds, the whole sky being represented by 10. The notation is as follows:

a denotes *aurora borealis*	hl denotes *hail*	h-r denotes *heavy rain*	h-sqs denotes *heavy squalls*
ci .. *cirrus*	so-ha .. *solar halo*	c-h-r .. *continued heavy rain*	fr-h-sqs .. *frequent heavy squalls*
ci-cu.. *cirro-cumulus*	l .. *lightning*	m-r .. *misty rain*	sc .. *scud*
ci-s .. *cirro-stratus*	li-cl .. *light clouds*	fr-m-r .. *frequent misty rain*	li-sc .. *light scud*
cu .. *cumulus*	lu-co .. *lunar corona*	sl-r .. *slight rain*	sl .. *sleet*
cu-s .. *cumulo-stratus*	lu-ha .. *lunar halo*	h-sh .. *heavy showers*	sn .. *snow*
d .. *dew*	m .. *meteor*	fr-shs .. *frequent showers*	sl-sn .. *slight snow*
h-d .. *heavy dew*	ms .. *meteors*	fr-h-shs . *frequent heavy showers*	s .. *stratus*
f .. *fog*	n .. *nimbus*	li-shs .. *light showers*	t .. *thunder*
th-f .. *thick fog*	r .. *rain*	oc-shs .. *occasional showers*	t-s .. *thunder storm*
fr .. *frost*	th-r .. *thin rain*	sq .. *squall*	w .. *wind*
h-fr .. *hoar frost*	oc-r .. *occasional rain*	sqs .. *squalls*	st-w .. *strong wind*
h .. *haze*	fr-r .. *frozen rain*	fr-sqs .. *frequent squalls*	

Observations of special character are reserved for the pages following the tabular arrangement.

MONTH and DAY, 1851.		Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers.								Difference between the Dew Point Temperature and Air Temperature.			Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers.					Rain in Inches read at 9h P. M.
				Dry.			Dew Point.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h P. M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning.						Osler's.				Wheewell's.	
																General Direction.		Pressure in lbs. on the square foot.			Amount of Horizontal Movement of the Air on each Day.	
				Highest.	Lowest.	Mean Daily Value.	Mean Daily Value.			Highest.	Lowest.	Mean Daily Value.	Greatest.	Least.		A.M.	P.M.	Greatest.	Least.	Mean of 24 Obs.		
			in.	°	°	°	°	°	°	°	°	°	°	°				lbs.	lbs.	lbs.	miles.	in.
Jan.	1	..	29·606	56·5	48·9	51·8	48·9	57·0	45·5	44·6	39·5	2·9	4·6	0·0	+13·9	SW	SW	5·0	1·0	3·4	320	0·01
	2	Greatest Dec. S	29·652	53·5	45·1	49·9	44·9	56·0	41·5	45·8	41·0	5·0	6·0	4·2	+12·1	WSW	SW	9·6	0·0	3·1	205	0·00
	3	..	29·802	50·3	44·2	44·8	44·8	52·0	33·0	45·8	40·5	0·0	0·9	0·0	+ 7·1	Calm	ENE; Calm	0·0	0·0	0·0	85	0·34
	4	..	29·672	47·0	38·0	42·7	40·1	54·0	35·0	46·1	41·3	2·6	3·5	2·0	+ 5·1	Calm	S	1·0	0·0	0·1	80	0·00
	5	..	29·442	47·5	34·6	39·9	37·6	47·2	26·0	45·6	41·0	2·3	7·0	1·0	+ 3·8	S; W	S	0·0	0·0	0·0	25	0·00
	6	Apogee	29·503	45·3	31·4	38·5	37·8	..	31·0	45·1	40·5	0·7	4·1	0·0	+ 2·4	Calm	E	0·0	0·0	0·0	5	0·00
	7	..	29·403	48·6	37·6	42·8	41·4	50·0	29·0	44·6	40·7	1·4	4·8	0·0	+ 6·7	ESE	S	0·0	0·0	0·0	35	0·01
	8	..	29·385	50·5	35·6	43·1	38·3	53·0	30·0	44·6	40·5	4·8	6·9	1·8	+ 7·0	SW	SW	5·0	0·0	1·0	125	0·03
	9	In Equator	29·835	45·7	33·8	38·4	32·9	48·0	28·0	43·1	39·5	5·5	9·6	2·7	+ 2·2	SW	SW	2·0	0·0	0·0	70	0·00
	10	First Qr.	29·876	51·1	32·8	44·8	44·1	54·7	41·0	43·1	39·5	0·7	2·7	0·3	+ 8·5	S	SW	2·0	0·0	0·0	70	0·28
	11	..	29·998	50·7	47·2	48·2	46·0	53·0	43·0	43·1	39·5	2·2	3·3	0·7	+11·8	SW	SSW	0·0	0·0	0·0	170	0·00
	12	..	29·852	50·5	46·6	48·1	44·8	53·0	43·2	43·6	39·5	3·3	4·2	1·4	+11·5	SSW	SSW	0·0	0·0	0·0	120	0·00
	13	..	29·667	49·3	45·6	46·6	41·3	52·0	42·0	44·1	40·5	5·3	6·8	3·7	+ 9·9	S	S	2·5	0·0	1·3	165	0·00
	14	..	29·339	46·6	42·8	43·8	38·5	51·0	36·0	44·4	40·5	5·3	7·0	2·9	+ 7·0	SSE	SE	2·0	0·0	1·1	145	0·00
	15	..	29·008	46·7	39·8	45·4	38·5	50·8	32·0	44·4	41·0	6·9	9·9	5·0	+ 8·5	SE	S	6·0	0·0	3·2	280	0·00
	16	Greatest Declination N.	29·541	47·1	37·2	43·9	38·1	52·0	37·0	44·1	40·5	5·8	8·4	2·6	+ 6·9	SW; S	S	9·6	0·0	3·7	300	0·10
	17	Full	29·534	51·5	38·1	45·9	38·1	54·4	29·0	44·4	41·0	7·8	11·2	5·1	+ 8·8	SW	SW	7·5	0·0	2·5	140	0·13
	18	Perigee	29·906	48·1	34·7	41·3	36·7	..	31·5	44·4	40·7	4·6	8·3	2·1	+ 4·1	SW	SW; W	0·0	0·0	0·0	80	0·32
	19	..	29·923	51·3	39·2	44·0	39·9	..	32·0	43·6	40·0	4·1	4·8	2·2	+ 6·6	S	SSE	2·5	0·0	0·3	150	0·00
	20	..	29·656	47·0	37·8	41·8	39·6	49·0	38·2	42·8	39·5	2·2	3·8	0·7	+ 4·3	SSE	S	0·0	0·0	0·0	240	0·14
	21	..	29·378	50·9	40·8	45·8	40·0	52·0	31·0	42·6	39·5	5·8	10·8	1·4	+ 8·2	SW	SW	5·0	0·0	2·8	120	0·31
	22	..	29·866	46·5	34·9	40·1	34·1	49·0	28·0	42·6	39·5	6·0	10·8	3·1	+ 2·4	SW	SW	6·0	0·0	3·7	85	0·01
	23	..	30·212	48·1	34·1	40·0	35·4	50·0	22·5	41·8	38·5	4·6	8·7	1·8	+ 2·1	SW	SW	0·0	0·0	0·0	65	0·00
	24	Last Qr.	30·055	37·3	26·6	31·7	31·4	39·8	24·5	41·6	37·5	0·3	2·1	0·0	− 6·3	SW	SW; SE	0·0	0·0	0·0	50	0·00
	25	..	29·857	43·1	30·6	37·1	33·6	47·0	29·8	40·6	37·0	3·5	7·4	2·4	− 1·0	SE	SSE; S	0·0	0·0	0·0	45	0·00
	26	..	29·658	39·5	34·8	36·5	34·4	..	30·0	39·6	36·5	2·1	6·2	0·4	− 1·7	SSE	SE	0·0	0·0	0·0	100	0·00
	27	..	29·827	48·5	35·0	41·0	35·2	53·5	31·0	39·1	35·7	5·8	8·1	2·3	+ 2·7	SW	SW; S	0·0	0·0	0·0	100	0·00
	28	..	29·664	49·0	36·6	43·5	37·0	50·0	37·0	39·6	36·0	6·5	11·0	2·3	+ 5·1	S	SW	5·0	0·0	0·7	170	0·10
	29	Greatest Declination S.	29·549	53·5	43·4	49·2	45·8	55·0	33·8	40·8	37·0	3·4	6·1	1·4	+10·8	SW	SW	6·0	0·0	2·8	230	0·05
	30	..	29·357	46·5	37·8	41·2	34·4	52·0	30·0	41·6	38·3	6·8	10·6	2·2	+ 2·7	SW	SW; S	6·5	0·0	1·0	105	0·48
	31	..	29·090	44·3	34·3	39·0	36·7	..	30·0	41·6	38·0	2·3	4·8	1·0	+ 0·4	SW	WSW; Calm	1·4	0·0	0·0	25	0·12
Feb.	1	New	29·339	43·3	34·8	37·6	35·0	49·0	31·0	41·1	37·7	2·6	7·9	1·8	− 1·0	Calm	N	0·0	0·0	0·0	85	0·00
	2	Apogee	29·448	40·5	33·4	36·2	35·2	44·0	26·0	41·1	37·5	1·0	1·2	0·0	+ 2·4	N	Calm	0·0	0·0	0·0	25	0·16
	3	..	29·428	44·5	31·2	38·6	36·3	47·0	27·0	40·6	36·7	2·3	6·4	0·0	− 0·1	S	SW	0·0	0·0	0·0	140	0·05
	4	..	29·778	44·3	32·5	37·2	34·0	48·0	27·8	40·1	36·5	3·2	9·0	0·0	− 1·5	W	NW; SW	0·0	0·0	0·0	105	0·01
	5	..	29·562	52·3	33·8	44·4	43·3	55·5	31·0	39·8	36·5	1·1	3·3	0·0	+ 5·6	S	SSW	7·5	0·0	3·0	275	0·07
	6	In Equator	29·834	48·3	35·0	39·9	31·9	49·8	27·0	40·1	36·5	8·0	12·9	4·0	+ 1·1	WSW	SW	3·6	0·0	0·8	115	0·08
	7	..	29·962	48·3	32·5	41·8	40·2	53·0	37·2	40·6	36·7	1·6	4·0	2·1	+ 3·0	S	SW	2·5	0·0	0·5	265	0·02
	8	..	29·885	51·1	41·6	45·3	36·6	53·8	28·0	41·6	37·5	8·7	14·1	3·1	+ 6·5	SW	N	5·0	0·0	1·0	125	0·00
	9	First Qr.	30·270	47·5	34·8	40·5	34·7	50·0	37·0	42·1	37·7	5·8	12·0	1·9	+ 1·6	NNW	N	0·0	0·0	0·0	35	0·00
	10	..	30·287	42·8	37·6	39·2	36·6	45·0	26·0	42·4	38·5	2·6	4·8	3·0	− 0·7	N	Calm	0·0	0·0	0·0	10	0·00
	11	..	30·159	46·2	30·8	38·5	34·4	48·8	28·0	41·8	38·3	4·1	8·3	2·7	− 0·4	S	SW	0·0	0·0	0·0	25	0·00
	12	..	30·010	46·7	33·6	40·5	36·2	49·0	33·0	41·4	37·7	4·3	9·6	2·3	+ 1·5	Calm	W	0·0	0·0	0·0	75	0·00
	13	Greatest Declination N.	29·887	43·3	39·6	41·5	40·8	44·0	34·0	41·6	38·1	0·7	1·4	0·0	+ 2·5	W	Calm	0·0	0·0	0·0	5	0·05
	14	..	30·112	45·7	36·7	40·5	39·5	46·0	25·0	41·4	38·0	1·0	4·8	0·0	+ 1·5	ESE	Calm	0·0	0·0	0·0	25	0·01
	15	Perigee	30·186	48·5	27·6	36·7	29·4	56·5	19·0	41·1	37·7	7·3	12·6	0·0	− 2·4	Calm	Calm	0·0	0·0	0·0	5	0·00
	16	Full	30·122	46·1	26·4	35·1	27·6	..	17·0	40·6	37·0	7·5	14·1	3·0	− 4·3	Calm	Calm	0·0	0·0	0·0	30	0·00
	17	..	30·006	45·1	23·7	35·9	31·0	54·0	28·0	40·6	36·7	4·9	10·6	0·0	− 3·3	SE	SW	0·0	0·0	0·0	160	0·00
	18	..	29·907	57·1	38·1	48·9	43·7	61·0	44·0	41·6	38·0	5·2	8·6	4·0	+ 9·6	SW	SW	5·0	0·0	2·5	270	0·00
	19	In Equator	29·765	53·9	47·1	48·9	44·1	56·0	40·0	43·1	39·3	4·8	6·1	1·6	+ 9·6	SW	SW	6·0	0·0	3·0	195	0·00
	20	..	29·635	52·1	41·9	46·2	41·4	53·0	33·0	44·4	40·5	4·8	9·2	2·8	+ 6·8	SW	SW	0·0	0·0	0·0	40	0·20
	21	..	29·774	48·3	37·7	42·7	39·3	50·0	26·5	44·6	40·5	3·4	8·4	0·5	+ 3·2	NE	NE; Calm	0·0	0·0	0·0	60	0·10
	22	Last Qr.	29·879	49·6	30·9	39·8	34·3	..	25·0	44·6	40·7	5·5	15·2	0·0	+ 0·2	Calm	SE	0·0	0·0	0·0	75	0·00
	23	..	29·696	48·7	31·9	39·5	33·0	..	29·4	44·4	40·7	6·5	9·9	4·7	− 2·9	E	E	2·5	0·0	0·3	85	0·00
	24	..	29·678	51·6	35·8	34·1	32·3	..	27·0	44·1	40·5	1·8	4·6	0·0	− 6·4	E	SE	0·0	0·0	0·0	20	0·03
	25	Greatest Declination S.	29·776	49·2	34·1	41·4	40·2	..	29·0	43·6	40·3	1·2	5·5	0·0	+ 1·0	E	NE	0·0	0·0	0·0	45	0·00
	26	..	30·189	46·6	32·4	38·2	30·2	..	20·0	43·1	39·7	8·0	13·8	5·6	− 5·0	NE	NNE	4·8	0·0	0·5	55	0·00
	27	..	30·233	43·6	29·1	37·1	33·8	..	24·7	43·1	40·0	3·3	8·9	0·0	− 4·4	NNE	Calm	0·0	0·0	0·0	40	0·08
	28	..	30·223	42·2	31·4	36·2	26·8	..	22·0	42·6	39·5	9·4	14·3	0·0	− 7·7	Calm	N	0·0	0·0	0·0	45	0·00

MONTH and DAY, 1851.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Jan. 1	o	o	10, ci.-s, sc	10, ci.-s, sc, m.-r
2	o	o	8, ci.-s, sc	8, ci.-s, sc
3	o	o	10, ci.-s, r	10, ci.-s, r
4	o	o	5, ci.-s, li.-cl : 10, ci.-s, li.-cl, r	8, ci.-s, li.-cl, sc : 5, ci.-s, li.-cl, sc
5	o	o	o	2
6	o	o	5, ci.-s, sc	7, ci.-s, sc : 10, ci.-s
7	o	o	10, ci.-s : 7, ci.-s, li.-cl	10, ci.-s, r
8	o	o	5, ci.-s, li.-cl	10, ci.-s, li.-cl, h.-r : o
9	o	o	o	o
10	o	o	10, ci.-s	10, ci.-s, r
11	o	o	10, ci.-s, m.-r	10, ci.-s, m.-r
12	o	o	10, ci.-s, sc	10, ci.-s, sc : 9, ci.-s
13	o	o	10, ci.-s	10, ci.-s
14	o	o	7, ci.-s, li.-cl, sc	7, ci.-s, li.-cl, sc : 10, ci.-s
15	o	o	10, ci.-s, sc	10, ci.-s, sc : o
16	o	o	o	10, ci.-s, h.-r
17	o	o	o	7, ci.-s : 10, ci.-s, h.-r
18	o	s : o	1	1 : 5
19	o	o	7, ci.-s	7, ci.-s : 10, ci.-s
20	o	o	10, ci.-s, sqs, w, r	10, ci.-s, sqs, w, r
21	o	o	9, ci.-s, li.-cl, sc	2 : 10, ci.-s, li.-cl, sc, h.-r
22	o	o	o	o
23	o	* m : o	o	3, ci.-s, li.-cl : o
24	m	m	th.-f	th.-f : o
25	o	o	8, ci.-s, s	8, ci.-s, s
26	o	o	9	9 : sl
27	o	o	8 : o	3, ci.-cu : 10, r
28	o	o	10, r : o	o : 3 : 10, r
29	o	o	10	10, h.-r
30	o	o	10, sqs, r : 8	8 : 10, sqs, r
31	o	o	10, h.-r : 8	8 : 10
Feb. 1	o	o	10	10 : 7 : o
2	o	o	10, ci.-s, sc, r	10, ci.-s, sc : o
3	o	o	10, ci.-s, th.-f	10, ci.-s, r
4	o	o : s : o	10, s, f	v : o
5	o	o	10, ci.-s, sc, h.-r	10, ci.-s, sc, h.-r
6	o	o	o	7, ci.-s, l, sc : o
7	o	o	10, ci.-s, sc, r	10, ci.-s, sc, r
8	o	o	5, cu, ci.-cu, ci.-s	5, cu, ci.-cu, ci.-s : o
9	o	o	7, s, li.-cl, h	10, s, h
10	o	o	10, ci.-s	10, ci.-s
11	o	o	10, ci.-s, li.-cl, sc	10, ci.-s, li.-cl, sc
12	o	o	7, cu.-s, ci.-s	7, cu.-s, ci.-s v, ci.-s
13	s N	o	10, ci.-s, r	10, ci.-s
14	o	o	10, ci.-s, th.-f	10, ci.-s
15	s P	o	o	o
16	o	o	o	o
17	s P	o	o	o : o : 10, ci.-s, sc
18	o	o	9, ci.-s, li.-cl, sc	10, ci.-s, li.-cl, sc
19	o	o	10, ci.-s, sc	10, ci.-s, sc
20	o	o	10, ci.-s, sc	10, ci.-s, sc, r
21	o	o	10, ci.-s, h, so.-ha	10, ci.-s, h : o
22	s	s	10 : 7, so.-ha	7, so.-ha : o
23	o	o	o	o
24	o	o	10, cu.-s, ci.-s, r	7, cu.-s, ci.-s : v, ci.-s
25	o	o	10, ci.-s, f	10, ci.-s
26	m	m	5, ci.-s, sc	10, ci.-s, sc : o
27	o	o	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc, r
28	m	m	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc, sn

MONTH and DAY, 1851.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9 P.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9 A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Wind as deduced from Anemometers. Osler's. General Direction. P. M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 hrs.	Osler's. Amount of Horizontal Movement of the Air on each Day.	Wheewell's. Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Mar. 1	Apogee	30·072	43·7	30·8	36·4	26·5	..	25·5	41·6	36·3	9·9	13·2	5·0	— 4·2	NW	N	3·5	0·0	0·3	145	0·00
2	..	30·264	47·0	32·2	37·6	31·1	..	27·0	41·6	38·0	6·5	14·7	4·2	— 3·2	N	Calm	0·0	0·0	0·0	35	0·00
3	New	30·049	43·1	32·2	36·5	32·6	..	26·0	41·1	37·5	3·9	7·2	3·0	— 4·3	SW	W	0·0	0·0	0·0	30	0·00
4	..	29·904	50·8	32·7	41·6	33·8	..	34·8	41·1	37·5	7·8	13·2	2·5	+ 0·7	W	W	0·0	0·0	0·0	50	0·00
5	In Equator	29·583	47·4	40·2	42·3	39·7	..	25·5	41·4	37·5	2·6	6·7	1·8	+ 1·2	SW	SW; NW	3·0	0·0	0·3	130	0·10
6	..	29·670	46·4	32·8	38·8	28·1	..	30·0	41·1	37·5	10·7	12·3	9·6	— 2·3	N	NNW	7·0	0·0	1·6	175	0·00
7	..	29·840	46·7	35·8	39·6	31·5	..	29·0	41·4	38·0	8·1	11·3	6·5	— 1·6	NNW	N	0·0	0·0	0·0	10	0·00
8	..	29·918	46·7	35·8	39·9	31·1	..	23·0	41·4	38·1	8·8	15·0	4·4	— 1·4	W	Calm	0·0	0·0	0·0	65	0·00
9	..	29·690	48·0	29·8	40·2	30·4	..	27·0	41·4	38·0	9·8	13·9	1·0	— 1·2	S	SSE	2·0	0·0	0·2	75	0·00
10	First Qr.	29·551	41·2	35·9	38·3	35·9	42·0	29·0	41·6	38·1	2·4	7·4	1·3	— 3·2	SSE; NW	NW	4·5	0·0	1·0	190	0·05
11	..	29·848	49·1	35·2	40·0	34·5	53·0	25·0	41·1	37·7	5·5	10·1	0·0	— 1·6	NW; N	N; Calm	3·3	0·0	0·3	45	0·00
12	Greatest Declination N.	29·549	43·6	37·9	38·8	37·0	45·0	29·0	41·4	37·7	1·8	8·1	0·0	— 2·9	Calm; SE	ESE; Calm	0·0	0·0	0·0	30	0·10
13	..	29·625	51·1	38·6	43·1	37·1	54·8	27·3	41·6	38·3	6·0	11·2	1·2	— 1·3	SW	SW	0·0	0·0	0·0	40	0·01
14	..	29·682	52·0	39·6	44·3	38·1	58·0	28·0	42·1	38·5	6·2	13·4	0·5	+ 2·4	SSW	SSW	0·0	0·0	0·0	30	0·00
15	..	29·604	41·8	37·1	38·8	37·0	43·0	29·0	42·1	38·7	1·8	2·9	0·0	— 3·2	ENE	N; NNW	0·0	0·0	0·0	70	1·45
16	Perigee	29·720	50·0	36·9	41·6	36·1	..	28·8	42·1	38·5	5·5	6·2	1·6	— 0·5	NW; SW	NW; Calm	0·0	0·0	0·0	20	0·06
17	Full	29·491	44·5	32·8	40·4	39·2	45·0	32·3	42·2	39·0	1·2	2·5	0·0	— 1·8	Calm	E; N	0·0	0·0	0·0	60	0·34
18	In Equator	29·574	52·1	37·4	43·9	41·7	54·0	35·0	42·6	39·5	2·2	7·8	0·0	+ 1·6	N; SSE	SW	5·0	0·0	1·0	210	0·15
19	..	29·441	51·1	40·4	46·2	43·2	52·0	39·0	43·6	40·0	3·0	7·9	1·9	+ 3·8	SW	SW	4·0	0·0	0·6	105	0·30
20	..	29·237	58·4	42·9	48·6	42·7	70·0	34·8	45·6	41·5	5·9	10·4	3·0	+ 6·1	SW	SW; S	2·5	0·0	0·3	95	0·07
21	..	29·157	55·9	41·4	48·2	39·9	65·0	37·0	46·8	43·0	8·3	12·8	3·5	+ 5·6	S by E	SSW	4·3	0·0	1·0	230	0·01
22	..	29·842	51·7	42·4	45·3	42·9	52·0	40·3	47·1	43·7	2·4	5·3	0·0	+ 2·6	S	SE	8·5	0·0	1·6	290	0·20
23	..	28·966	51·0	39·6	45·5	40·0	..	35·3	46·8	43·5	5·5	11·7	2·5	+ 2·7	SW	SW; S	9·6	0·0	2·0	135	0·30
24	..	29·375	49·4	41·4	44·7	41·0	50·0	33·0	46·6	43·5	3·7	7·5	0·7	+ 1·8	SW	W	0·0	0·0	0·0	65	0·03
25	Last Quarter Greatest Decl. S.	29·598	50·9	38·0	45·0	41·4	52·0	43·0	46·8	43·5	3·6	7·1	1·3	+ 2·0	SW	SW; S	0·0	0·0	0·0	125	0·02
26	..	29·338	52·4	39·6	44·7	42·5	53·0	33·0	46·8	43·5	2·2	6·0	1·1	+ 1·5	SW	SW	6·0	0·0	1·6	235	0·27
27	..	29·419	56·1	37·8	47·7	43·3	58·0	40·0	46·6	43·5	4·4	7·3	4·4	+ 4·4	SW	WSW	7·3	0·0	1·7	275	0·02
28	Apogee	29·646	56·8	44·1	49·0	36·5	59·0	37·0	47·6	44·1	12·5	16·4	7·8	+ 5·6	WSW	W; SW	3·6	0·0	1·3	165	0·00
29	..	29·371	54·0	41·9	47·5	42·7	55·0	32·0	49·1	45·3	4·8	13·8	0·4	+ 3·9	SW	WSW	7·2	0·0	1·3	245	0·20
30	..	29·559	53·5	37·8	44·8	36·2	..	31·0	49·1	44·7	8·6	14·0	3·0	+ 1·0	SW	WNW	4·0	0·0	0·8	150	0·03
31	..	30·045	48·3	38·8	42·7	33·3	50·0	32·0	48·1	44·3	9·4	14·1	4·8	— 1·2	NW	NW	2·5	0·0	0·2	85	0·02
April 1	In Equator Now	30·014	53·9	39·1	44·5	38·7	55·0	35·0	47·8	44·3	5·8	11·8	1·5	+ 0·3	W	Calm	0·0	0·0	0·0	85	0·00
2	..	29·949	49·9	40·5	44·6	42·1	52·0	38·0	47·6	44·3	2·5	7·9	0·0	+ 0·3	SW	SW	2·0	0·0	0·1	120	0·03
3	..	29·961	52·3	43·1	44·8	39·4	57·0	30·0	47·8	44·5	5·4	9·5	2·5	+ 0·3	SW; NNW	N	3·0	0·0	0·3	95	0·00
4	..	29·947	54·0	39·6	43·5	37·5	60·0	21·4	48·6	45·0	6·0	11·0	1·1	— 1·1	Calm; NNE	NNE; NE	5·0	0·0	0·1	135	0·09
5	..	29·887	51·5	29·9	39·5	34·2	73·0	20·0	48·6	45·3	5·3	12·4	1·8	— 5·3	NE	ESE	0·0	0·0	0·0	50	0·00
6	..	29·968	48·3	28·6	37·4	29·9	..	27·0	48·6	45·0	7·5	11·5	3·4	— 7·5	Calm	NE	0·0	0·0	0·0	35	0·00
7	..	29·967	48·3	29·3	38·6	31·8	54·0	28·0	48·1	45·0	6·8	16·7	6·5	— 6·6	NE	NE	0·0	0·0	0·0	115	0·00
8	Greatest Declination N.	29·817	51·7	38·1	42·8	37·8	65·0	30·0	47·4	44·7	5·0	10·8	2·4	— 2·6	NNE	N	4·5	0·0	0·9	165	0·02
9	First Qr.	29·714	46·0	36·1	38·9	37·9	51·0	26·5	47·1	44·5	1·0	4·6	0·0	— 6·6	N	N	1·3	0·0	0·0	100	0·08
10	..	29·843	49·0	37·3	41·2	36·9	57·0	29·0	46·8	44·5	4·3	9·0	2·8	— 4·5	N	N	0·0	0·0	0·0	125	0·08
11	..	29·774	48·0	38·5	41·1	38·0	53·0	29·2	46·6	44·3	3·1	9·0	1·0	— 4·8	N	NNE	0·0	0·0	0·0	75	0·14
12	..	29·785	54·5	38·6	42·1	37·3	64·0	21·5	46·1	44·5	4·8	16·6	0·5	— 4·0	NNE	NE; E	0·0	0·0	0·0	55	0·00
13	Perigee	29·830	52·0	32·4	41·8	35·6	..	25·5	..	43·5	6·2	9·0	2·6	— 4·5	Calm	E	0·0	0·0	0·0	60	0·00
14	In Equator	29·794	48·0	33·1	41·2	35·7	55·0	34·0	..	43·0	5·5	10·9	4·4	— 5·2	E; NE	NE	0·0	0·0	0·0	75	0·00
15	Full	29·697	49·3	38·9	42·7	36·9	54·0	36·0	..	43·5	5·8	9·5	4·8	— 3·9	NE	E	0·0	0·0	0·0	75	0·00
16	..	29·727	54·0	39·5	41·2	37·1	60·0	38·0	..	..	4·1	10·0	3·5	— 5·6	E	E	2·0	0·0	0·2	115	0·02
17	..	29·707	64·1	43·5	52·8	46·2	77·0	38·0	48·6	45·5	6·6	10·8	3·3	+ 5·8	SSW	S	2·0	0·0	0·2	110	0·00
18	..	29·796	64·0	45·4	53·3	48·9	70·8	28·0	49·6	45·5	4·4	11·1	2·3	+ 6·1	S	SW; W	2·3	0·0	0·3	80	0·00
19	..	29·883	64·0	38·9	51·0	39·6	83·0	28·0	50·6	46·7	11·4	21·6	4·6	+ 3·7	SW	SW	0·0	0·0	0·0	75	0·00
20	..	29·454	62·0	40·9	51·7	48·5	..	43·0	52·5	48·3	3·2	7·6	1·0	+ 4·3	E	E; SW	2·5	0·0	0·2	65	0·70
21	Greatest Declination S.	29·493	59·0	50·5	53·5	50·9	62·0	40·0	54·0	49·5	2·6	7·8	1·0	+ 5·9	SSW	SSW	2·0	0·0	0·3	85	0·03
22	..	29·299	52·0	46·5	49·0	48·6	65·0	33·0	54·3	50·0	0·4	3·0	0·0	+ 1·2	SW; NE	W	0·0	0·0	0·0	95	0·55
23	Last Qr.	29·586	61·5	41·1	51·5	45·3	85·0	28·0	54·3	50·5	6·2	15·3	1·0	+ 3·5	SW	SW	0·0	0·0	0·0	100	0·03
24	..	29·658	61·0	40·1	50·6	46·3	87·0	30·0	54·5	50·5	4·3	14·4	0·0	+ 2·3	SW	SW	0·0	0·0	0·0	20	0·00
25	Apogee	29·735	55·6	42·9	47·1	44·4	77·0	24·0	54·5	50·7	2·7	11·0	2·0	— 1·4	NNE	N	0·0	0·0	0·0	70	0·00
26	..	29·599	59·8	36·1	46·2	40·5	85·0	23·5	55·7	51·5	5·7	14·0	2·9	— 2·6	N; SW	SW; N	6·0	0·0	0·0	75	0·01
27	..	29·451	52·7	32·7	40·6	36·8	..	24·0	54·0	50·0	3·8	8·0	1·5	— 8·4	N	NE	1·0	0·0	0·0	30	0·00
28	..	29·499	50·2	32·5	40·6	32·4	58·0	26·3	54·0	50·0	8·2	15·4	2·0	— 8·7	N	W; SW	0·0	0·0	0·0	40	0·03
29	In Equator	29·457	53·4	34·9	42·3	38·0	63·0	25·0	52·7	48·3	4·3	9·9	3·6	— 7·3	S	Calm; SW	0·0	0·0	0·0	70	0·14

MONTH and DAY, 1851.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Mar. 1	m	m	o	10 : v
2	o	o	o	5, ci.-s, li.-cl : v
3	o	o	10, ci.-s	10, ci.-s
4	o	o : m : o	5, ci.-s, li.-cl	5, ci.-s, li.-cl, sc : 10, ci.-s
5	v	v	10, ci.-s, r	10, ci.-s, r
6	o	o	o	10
7	o	o : m : o	10, ci.-s	10, ci.-s
8	s	s	10	10 : 8 : o
9	m	m	5, ci.-s, sc	10, ci.-s, sc
10	o	o	10, ci.-s	10, ci.-s, r
11	o	o	o : 10, ci.-s, sc, h.	10, ci.-s, sc, h : o
12	o	s N : o : s N	10, c.-is, sl.-n	10, ci.-s, sl.-r
13	o	s	10 : 7	7 : o : o
14	s	s	10	10
15	N	N	10	10
16	o	o	7	v, r
17	o	o	10, h.-r	10, h.-r
18	o	o : s N : o	10, r	10, r : o
19	o	o : s P, s N, sps : o	10, r	10, r
20	o	o	5, cu, cu.-s, ci.-s, fr.-shs	5, cu, cu.-s, ci.-s, fr.-shs, hl : o
21	o	o	v, r	v, h-r
22	o	o	10, h.-sqs, w, r	10, h, sqs, w, r
23	o	o	10, r	10, r
24	o	o	10	10, r : 10
25	o	o	10, r	10, r
26	o	o	10, r	10, r : o
27	o	o	3	10, li.-shs : o
28	o	o	7	7 : 7 : o
29	o	s N, sps, g. cur : o	10, shs, hl, r	10, shs, hl, r
30	o	o	v, shs, hl, r	o, shs, hl, r
31	o	o	10, ci.-s	10, ci.-s : v
April 1	o	o : s P : o	10	3 : 10
2	s	s	10, sl.-r	10, sl.-r
3	o	o	10	10 : 7
4	o	o	9, cu, cu.-s, ci.-s, sc	9, cu, cu.-s, ci.-s, s
5	o	o	10	10
6	m	m	10, cu-s, ci.-s	10, cu.-s, ci.-s : o
7	o	o	7, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s
8	s N, s P, sps, g. cur	o	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s, sbs, hl, r
9	o	o	10	10, r : 10, r : v
10	o	o	10	10
11	s	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s, r
12	s	o	10	10 : o
13	o	o	10	10 : o
14	o	o	10, ci.-s	10, ci.-s
15	o	o	10, ci.-s	10, ci.-s
16	o	o	10, cu, cu.-s, ci.-s, sl.-r	7, cu, cu.-s, ci.-s : 10, ci.-s, sl.-r
17	o	o	10, cu.-s, ci.-s, li.-cl	v, cu.-s, ci.-s, li.-cl
18	o : o : w	o	li.-cl	o
19	o	o : w : o	5, li.-cl	o
20	w	o	10	10 : 10, h.-r
21	o	o	10, ci. s, fr.-shs	10, ci.-s, fr.-shs
22	o	o	10, ci.-s, h, h.-r	10, ci.-s, h, h.-r : 10, ci.-s, h
23	o	o : s : o	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : o
24	o	o : s : o	7, ci.-cu, ci.-s	5, ci.-cu, ci.-s : o
25	o	o : s : o	10, cu.-s, ci.-s, m.-r	10, cu.-s, ci.-s
26	o	P, N, sps, g. cur : o	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s, sh.-r
27	o	o	10	v : shr.-r
28	s N, s P, sps, g. cur	s N, s P, sps, g. cur	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s : o
29	o	s N, s P, sps, g. cur : o	10, h.-sh, r	10, h.-sh.-r, t

MONTH and DAY, 1851.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value	Dew Point. Mean Daily Value	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P. M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A. M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Osler's. General Direction. P. M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
April 30	..	29·501	54·2	33·5	43·9	35·0	65·0	23·4	53·0	49·1	8·9	12·0	1·1	— 6·0	W	W	2·5	0·0	0·2	55	0·05
May 1	New	29·611	57·8	34·9	45·6	36·6	73·0	22·0	52·0	49·0	9·0	14·0	1·3	— 4·8	W; N	SW	2·5	0·0	0·2	45	0·00
2	..	29·613	58·2	34·9	46·0	38·6	72·0	22·0	52·5	49·0	7·4	14·0	2·1	— 4·7	Calm; N	N	3·0	0·0	0·1	80	0·00
3	..	29·628	50·0	34·1	40·3	37·7	60·0	22·8	52·3	49·0	2·6	9·9	0·0	—10·8	NW	Variable	2·0	0·0	0·1	40	0·10
4	..	29·564	49·0	33·9	40·2	35·4	63·0	23·0	53·0	49·0	4·8	6·9	2·6	—11·2	N	N	1·0	0·0	0·0	135	0·00
5	Greatest Declination N.	29·581	51·8	33·5	41·2	36·9	67·0	31·0	52·0	48·5	4·3	12·3	0·0	—10·5	N; NW	N; NW	3·5	0·0	0·3	90	0·14
6	..	29·689	55·0	38·7	44·5	37·8	74·0	32·0	51·3	48·0	6·7	11·0	4·3	— 7·4	NW	NW	2·0	0·0	0·1	95	0·00
7	..	29·729	58·2	37·7	47·8	37·0	79·0	32·0	51·5	48·0	10·8	16·0	1·8	— 4·5	W; WSW	SW	0·0	0·0	0·0	120	0·00
8	First Qr.	29·606	59·2	40·9	49·7	39·4	77·0	28·0	52·3	48·5	10·3	15·2	0·0	— 2·8	SW; S	S; SSE	2·0	0·0	0·2	85	0·00
9	..	29·566	59·4	40·5	52·0	39·0	75·0	33·0	52·5	48·7	13·0	14·3	1·2	— 0·6	SE; S	S; SE	2·0	0·0	0·1	140	0·00
10	..	29·522	67·0	44·3	56·3	46·2	82·0	27·5	54·3	50·5	10·1	15·3	3·0	+ 3·6	SE	S; SW	1·0	0·0	0·1	35	0·00
11	Perigee	29·625	66·0	39·0	56·1	41·7	82·0	36·0	55·0	50·7	14·4	15·8	0·0	+ 3·2	Calm	NE	0·0	0·0	0·0	75	0·00
12	In Equator	29·844	60·0	47·8	51·8	49·0	77·0	35·0	55·0	51·0	2·8	7·2	0·0	— 1·1	N	NE	0·0	0·0	0·0	65	0·05
13	..	30·142	58·0	43·1	48·4	38·7	76·0	24·8	55·0	51·0	9·7	15·0	0·0	— 4·7	NNE	N	3·0	0·0	0·2	75	0·01
14	..	30·203	58·0	36·0	46·2	34·7	77·0	21·0	55·3	51·5	11·5	17·4	0·0	— 7·0	NNE	ENE	2·0	0·0	0·1	75	0·01
15	Full	30·080	62·0	34·9	50·7	37·7	85·5	24·4	55·0	50·5	13·0	16·2	0·0	— 2·7	NE	ENE	0·0	0·0	0·0	20	0·00
16	..	29·930	66·5	35·7	52·7	40·9	83·0	35·3	55·5	51·5	11·8	18·4	0·0	— 0·9	Calm	N; WSW	0·0	0·0	0·0	70	0·00
17	..	29·843	58·5	45·1	50·5	48·3	70·0	..	55·1	51·5	2·2	8·1	1·8	— 3·4	WSW	S	0·0	0·0	0·0	85	0·00
18	Greatest Declination S.	29·766	58·8	42·8	50·3	46·5	71·0	..	55·5	52·0	3·8	5·7	0·0	— 2·8	SSW	SW; NNW	4·5	0·0	0·5	140	0·20
19	..	29·777	58·7	41·3	49·8	38·1	70·0	30·0	56·0	52·3	11·7	16·9	0·7	— 4·6	WSW	NW	8·0	0·0	1·0	150	0·03
20	..	30·095	58·7	38·5	50·3	36·4	72·0	43·0	56·5	52·5	13·9	17·9	0·3	— 4·5	W; NW	NW	2·5	0·0	0·3	100	0·00
21	..	30·100	62·8	47·4	53·9	48·3	77·0	38·0	56·5	52·5	5·6	8·7	0·7	— 1·2	WSW	NW	0·0	0·0	0·0	40	0·00
22	..	30·114	70·2	48·4	60·0	52·8	76·0	39·0	56·7	53·0	7·2	9·8	0·0	+ 4·6	NW; Calm	W	0·0	0·0	0·0	15	0·00
23	Last Quarter Apogee	30·132	60·5	46·3	52·4	48·8	74·0	36·5	57·5	53·5	3·6	9·4	0·0	— 3·3	Calm	N; Calm	0·0	0·0	0·0	10	0·00
24	..	30·196	65·0	40·7	54·3	41·7	84·5	..	58·5	54·3	12·6	16·7	0·0	— 1·7	Calm; NE	Calm	0·0	0·0	0·0	65	0·00
25	..	29·916	71·8	48·5	58·9	52·6	79·0	44·0	60·0	53·7	6·3	9·1	4·0	+ 2·6	W	N	4·5	0·0	0·3	..	0·18
26	In Equator	29·812	60·2	46·5	51·1	43·5	86·0	34·0	60·5	54·5	7·6	12·0	2·0	— 5·5	N	N	1·0	0·0	0·0	130	0·01
27	..	29·954	64·0	39·7	51·3	41·6	77·0	41·0	61·1	55·5	9·7	13·5	1·3	— 5·6	N	N; NE	0·0	0·0	0·0	40	0·03
28	..	30·114	67·7	47·7	56·9	45·9	73·0	..	61·5	55·5	11·0	14·9	2·5	— 0·3	Calm	Calm	0·0	0·0	0·0	80	0·00
29	..	30·241	74·2	42·3	59·8	49·2	87·8	39·0	62·0	56·5	10·6	17·0	4·6	— 2·5	Calm	Calm	0·0	0·0	0·0	10	0·00
30	New	30·292	72·0	46·3	58·2	49·8	86·0	39·0	62·5	56·7	8·4	13·5	4·4	+ 0·6	SE; NNE	NNE; SE	0·0	0·0	0·0	105	0·00
31	..	30·351	65·2	43·7	52·9	43·3	78·0	40·0	63·5	57·5	9·6	12·4	0·0	— 4·9	SE; NE	NE; SE	0·0	0·0	0·0	75	0·00
June 1	..	30·168	71·6	38·5	54·8	43·2	75·5	31·0	63·1	59·5	11·6	16·2	0·0	— 3·1	E; NE	NE; SE	0·0	0·0	0·0	45	0·00
2	Greatest Declination N.	29·996	71·7	45·0	58·5	47·2	87·5	36·0	64·0	60·3	11·3	16·5	7·8	+ 0·4	SE; NNE	N	0·0	0·0	0·0	85	0·00
3	..	29·656	72·1	46·4	60·8	47·7	80·0	40·0	64·5	60·5	13·1	18·0	0·0	+ 2·5	SW	SW	3·0	0·0	0·7	180	0·00
4	..	29·769	61·1	40·9	47·7	37·1	71·0	35·0	64·7	60·5	10·6	17·7	4·8	—10·8	NW	SW; N	3·0	0·0	0·2	115	0·08
5	Perigee	29·679	61·2	39·5	50·9	44·2	69·0	33·5	64·5	60·5	6·7	10·5	1·3	— 7·8	S	SSW	6·0	0·0	2·3	270	0·09
6	First Qr.	29·768	68·1	47·5	56·5	51·0	80·0	43·0	63·5	59·7	5·5	9·8	2·6	— 2·3	SW	SW	4·5	0·0	2·2	230	0·00
7	..	29·842	67·1	51·5	57·4	53·4	74·0	46·0	63·0	59·3	4·0	9·1	2·4	— 1·5	SW	SW	4·0	0·0	1·6	245	0·00
8	In Equator	29·817	74·3	56·8	62·5	52·5	80·0	54·0	63·0	59·0	10·0	12·6	4·2	+ 3·5	SW	SW	5·0	0·0	2·3	190	0·00
9	..	29·693	60·7	55·2	55·1	49·3	63·0	51·5	62·5	58·7	5·8	10·0	2·8	— 3·9	Calm	SW	4·0	0·0	1·0	190	0·05
10	..	29·565	57·7	48·0	49·6	46·1	67·0	48·0	61·5	58·0	3·5	8·6	0·5	— 9·5	SW; N	NE	7·0	0·0	0·8	70	0·35
11	..	29·853	66·8	46·1	53·9	43·9	78·0	40·0	61·5	57·7	10·0	15·8	3·2	— 5·3	NW	SW	0·0	0·0	0·0	115	0·12
12	..	29·598	64·3	48·1	55·1	54·2	72·0	44·0	62·5	58·5	0·9	4·1	0·0	— 4·7	S; SW	SW	5·0	0·0	1·7	205	0·20
13	Full	29·697	68·8	56·4	58·9	55·5	73·0	52·0	63·0	59·3	3·4	7·8	1·0	— 3·9	WSW	SW	2·0	0·0	0·1	100	0·04
14	..	29·932	68·2	49·2	56·6	49·0	..	42·0	62·5	58·5	7·6	12·8	3·6	— 2·9	Calm	WSW	0·0	0·0	0·0	100	0·01
15	Greatest Declination S.	29·852	63·6	46·3	54·5	49·1	67·0	40·0	62·7	59·0	5·4	7·2	1·0	— 5·2	Calm	SW	5·0	0·0	0·8	235	0·17
16	..	29·824	69·9	52·5	58·5	49·0	73·0	48·0	62·3	58·5	9·5	14·4	3·6	— 1·3	SW	W	6·0	0·0	2·3	230	0·24
17	..	30·142	67·1	47·2	56·1	43·6	77·0	37·8	62·5	58·5	12·5	15·8	4·4	— 3·7	W; NW	NW	3·5	0·0	1·0	150	0·00
18	..	30·175	65·1	42·7	54·0	48·6	75·2	34·8	62·0	58·3	5·4	12·1	0·4	— 6·0	NW	W	3·5	0·0	0·2	150	0·02
19	..	29·992	76·8	55·5	65·2	56·9	87·0	48·0	62·5	58·5	8·3	13·4	3·7	+ 5·0	W	W	4·0	0·0	1·1	170	0·00
20	Apogee	29·957	78·1	53·2	64·9	57·1	94·0	47·0	63·5	59·5	7·8	12·6	1·2	+ 4·6	SW	Calm	0·0	0·0	0·0	35	0·00
21	Last Qr.	29·644	82·7	52·5	68·4	58·7	97·0	49·0	65·5	60·5	9·7	18·9	0·5	+ 8·0	Calm	S; SW	3·5	0·0	0·3	135	0·00
22	In Equator	29·778	68·3	53·3	56·2	47·5	..	49·8	65·5	60·5	8·7	14·2	7·6	— 4·3	SW; NW	N	1·3	0·0	0·2	115	0·00
23	..	30·072	65·9	44·3	54·4	43·2	75·0	47·0	64·5	60·5	11·2	15·0	2·1	— 6·2	NW; NE	NW	0·0	0·0	0·0	120	0·00
24	..	30·118	69·9	42·2	57·8	46·6	76·0	35·5	65·0	60·7	11·2	14·9	3·4	— 2·9	Calm; NW	W	0·0	0·0	0·0	105	0·00
25	..	30·122	74·5	48·3	63·4	50·8	82·0	44·0	64·7	60·5	12·6	16·8	1·5	+ 2·7	SW	W; Calm	0·0	0·0	0·0	50	0·00
26	..	30·080	82·3	50·2	67·3	55·6	95·0	47·0	65·7	62·5	11·7	19·4	0·8	+ 6·6	Calm	SW; Calm	0·0	0·0	0·0	60	0·00
27	..	30·029	87·0	50·5	70·4	60·5	102·0	47·0	68·0	64·5	10·9	29·2	1·5	+ 9·7	Calm	E	0·0	0·0	0·0	45	0·00

MONTH and DAY, 1851.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
April 30	s N, s P, sps, g. cur.	s N, s P, sps, g. cur	7	v, fr.-shs, l, t
May 1	o	o : s : o	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s
2	o	o	7, cu.-s, ci.-s, sc	7, cu.-s, ci. s, sc
3	s P, s N, sps	s P, s N, sps	10, r	10, r
4	m	m	7	7, hl : c
5	o	s	10, fr.-shs.-r	10, fr.-shs.-r
6	o : o : s	o	10, ci.-s	10, ci.-s
7	o	m	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc
8	m	m	7, cu, cu.-s, ci.-s	7, cu, cus, ci.-s, : o
9	o	o	10	10 : 10 : o
10	o	o	v, cu, cu.-s, ci.-s	v, cu, cu.-s, ci.-s, sh.-r
11	o	o	o	10, cu, ci.-s, li.-cl
12	o : o : s N	o	10, ci.-s : sh.-r	10, ci.-s
13	o	o	10, cu.-s, ci.-s, sc	7, cu.-s, ci.-s, sc
14	o	o	10, ci.-s	10 cis : 10, ci.-f : o
15	s	s	o	7 : 7 : o
16	o	m	o	10, cu, cu.-s, li.-cl
17	o	o	10	10 : o
18	o	o	10	10 : h.-r : o
19	o	s N : o	10, cu.-s, ci.-s, shs.-hl.-r	7, cu.-s, ci.-s, shs.-hl.-r : o
20	o	s : o	10, cu, cu.-s, ci.-s	10, cu., cu.-s, ci.-s
21	s	s	10, ci.-s	10, ci.-s
22	s	s : o	10, ci.-s	10, ci.-s
23	s	s	10 ci.-s, h : m.-r	10, ci.-s, h : 5, ci.-s, h : o
24	s	s	o	7, cu., cu.-s, s : 10, s
25	o	o	10	10 : sh.-r
26	o	o	10, cu, cu.-s, li.-cl	7, cu, cu.-s, li.-cl : sl.-r
27	o	o	o	10, ci.-s
28	o	o	3, cu, ci.-s, li.-cl	3, cu, ci.-s, li.-cl
29	o	s : o	o	o
30	s	o	7 cu.-s, ci.-s, li.-cl, sc : 10, cu.-s, ci.-s, li.-cl, sc	7, cu.-s, ci.s, li.-cl, sc : 10, cu.-s, ci.-s, li.-cl
31	o : o : m	o : o : m	o : 5, li.-cl	4, li.-cl : o
June 1	o	o	o	o
2	o	o	o	7 : o
3	o	o : o : w	7, ci.-s	7, ci.-s : 10, ci.-s
4	s	s	10, r	7 : o
5	s	s	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc : hr
6	o	o	10, ci.-s, li.-cl, sc	10, ci.-s, li.-cl, sc : v
7	o	o	10	10
8	o	o	10, ci.-s	10, ci.-s : o : 10, ci.-s
9	o	o	10, ci.-s, fr.-r	10, ci.-s, fr.-r
10	o	o	10, ci.-s	10, ci.-s, h.-r
11	o	o	9, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s
12	o	o	10, ci.-s, r	10, ci.-s, r
13	o	o	10, ci.-s	10, ci.-s : r
14	w	w	10	10 : r
15	o	o	10	10 : r
16	o	o	5, r	5 : o
17	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s : o
18	o	o	5, sl.-r	10
19	o	o	10, cu, cu.-s	10, cu, cu.-s : o
20	o	o	10, cu, cu.-s	10, ci.-s
21	o	o	v, li.-cl	10, ci.-s
22	o	o	10, ci.-s	o
23	o	o	10, cu.-s, ci.-s, l.-sc	10, cu.-s, ci.-s, l.-sc : o
24	o	o	10, ci.-s, li.-cl	10, ci.-s, li.-cl : o
25	o	o	10, ci.-s, so.-ha	10, ci.-s : v
26	o	w : o	o	o
27	o	m : o	o	o

MONTH and DAY, 1851.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9 P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9 A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
June 28	..	30·025	81·0	52·6	66·8	54·1	95·0	47·0	68·5	64·5	12·7	20·9	2·7	+ 6·0	Calm	ENE	0·0	0·0	0·0	95	0·00
29	New Dec. Greatest N.	30·021	79·3	49·9	65·0	55·6	..	45·0	..	..	9·4	13·7	5·3	+ 4·1	ENE; NE	E	1·0	0·0	0·3	90	0·00
30	..	29·990	77·9	50·3	66·2	55·8	..	46·0	..	..	10·4	19·5	4·9	+ 3·5	ENE	ESE	1·2	0·0	0·1	85	0·00
July 1	..	29·842	79·3	53·7	66·2	59·5	87·0	51·0	..	66·1	6·7	14·4	5·0	+ 5·1	ESE	NE; SE	0	0·0	0·0	55	0·07
2	Perigee	29·750	84·4	58·5	69·4	59·2	93·0	58·0	..	66·0	10·2	20·9	6·3	+ 8·2	N; SW	NE	3·2	0·0	0·7	175	0·69
3	..	29·876	68·1	52·0	58·2	49·8	82·0	..	..	65·5	8·4	13·8	5·9	— 3·1	NE	N	2·5	0·0	0·9	165	0·00
4	..	29·883	69·8	49·8	57·4	43·8	80·2	51·0	..	64·3	13·6	14·9	3·8	— 4·1	N	NNE; Calm	0·0	0·0	0·0	50	0·00
5	In Equator First Quarter	29·759	72·6	38·9	59·5	47·3	82·0	34·5	..	..	12·2	16·1	1·2	— 2·0	Calm	Calm	0·0	0·0	0·0	55	0·00
6	..	29·926	69·0	48·1	59·6	48·9	..	..	..	..	10·7	13·1	3·7	— 2·0	Calm	Calm	0·0	0·0	0·0	95	0·00
7	..	29·879	74·8	54·8	63·0	54·5	84·0	50·0	..	..	8·5	11·4	7·0	+ 1·3	W	W	0·0	0·0	0·0	85	0·00
8	..	29·626	73·5	54·0	61·2	54·3	80·0	47·0	..	64·5	6·9	12·0	6·4	— 0·6	W	NW; NE	2·3	0·0	0·2	110	0·28
9	..	29·623	67·5	49·4	56·7	49·5	76·0	43·3	..	65·0	7·2	12·2	1·5	— 5·2	NE; SW	SW; NNW	1·8	0·0	0·1	100	0·03
10	..	29·623	70·0	47·6	54·9	50·7	75·0	39·8	..	63·5	4·2	12·2	3·6	— 7·1	Calm	NW; NNE	6·0	0·0	0·6	150	0·35
11	..	29·997	67·8	41·4	56·1	46·6	86·0	35·0	..	64·0	9·5	14·6	4·3	— 6·0	W	W	1·0	0·0	0·0	140	0·00
12	Greatest Declination S.	29·757	78·7	57·2	65·8	55·1	96·0	44·0	..	64·0	10·7	14·6	8·7	+ 3·7	WSW	SW	3·0	0·0	0·5	130	0·00
13	Full	29·605	74·9	51·5	61·8	52·4	..	45·5	..	..	9·4	12·9	1·0	— 0·8	W	SW	4·0	0·0	0·7	235	0·00
14	..	29·394	71·6	56·2	61·5	49·8	78·0	51·0	..	..	11·7	16·2	9·7	— 0·6	SW; W	WSW	5·5	1·0	2·4	235	0·06
15	..	29·597	70·9	51·1	59·4	49·1	82·0	43·8	..	..	10·3	14·4	5·0	— 2·7	WSW	WNW	4·5	0·0	0·8	140	0·01
16	..	29·629	66·3	45·1	56·1	45·6	73·0	37·0	..	..	10·5	15·0	2·2	— 6·0	Calm; NNE	NNE	0·0	0·0	0·0	30	0·00
17	Apogee	29·603	61·7	47·7	54·9	46·5	70·0	41·0	..	..	8·4	13·9	4·6	— 7·2	Calm	Calm	0·0	0·0	0·0	30	0·29
18	..	29·772	68·1	43·6	57·2	46·2	76·0	38·0	..	..	11·0	14·9	1·5	— 4·8	Calm; NE	Calm	0·0	0·0	0·0	60	0·01
19	..	29·792	63·5	45·9	56·1	44·1	67·0	37·0	..	..	12·0	14·1	2·8	— 5·8	Calm	S	2·3	0·0	0·8	170	0·22
20	In Equator	29·602	73·4	52·9	63·0	56·7	..	52·0	..	..	6·3	7·2	5·0	+ 1·3	S	SW	6·0	0·0	1·9	230	0·02
21	Last Qr.	29·889	74·6	50·7	61·9	50·2	77·0	43·2	..	..	11·7	15·9	2·1	+ 0·8	W	WNW	1·0	0·0	0·0	55	0·00
22	..	29·875	75·2	46·0	61·6	50·1	87·0	39·0	..	..	11·5	15·5	3·0	+ 0·4	Calm	ESE	0·0	0·0	0·0	70	0·00
23	..	29·512	69·6	56·0	59·6	58·7	73·0	43·0	..	..	0·9	5·9	2·0	— 1·6	ESE	NW	0·0	0·0	0·0	80	1·44
24	..	29·385	60·2	55·2	55·7	53·0	..	57·0	..	..	2·7	2·6	0·0	— 7·1	NW	NNW; N	0·0	0·0	0·0	40	0·54
25	..	29·361	70·2	53·8	59·6	52·2	75·0	53·8	65·0	63·0	7·4	12·6	2·8	— 1·6	Calm	NNE	0·0	0·0	0·0	70	0·00
26	..	29·567	68·7	50·6	58·6	51·6	71·0	52·0	65·0	63·0	7·0	11·2	3·4	— 2·7	NNE	W	2·0	0·0	0·1	115	0·07
27	Greatest Declination N.	29·768	71·7	48·0	61·4	52·0	..	48·0	64·5	62·6	9·4	14·4	2·7	+ 0·1	Calm	WSW	2·0	0·0	0·2	150	0·00
28	New	29·729	67·6	58·4	60·5	55·8	70·0	41·0	64·6	62·8	4·7	8·8	3·2	— 0·9	SW	SSW	2·3	0·0	0·1	110	0·03
29	..	29·655	76·2	57·6	64·3	57·7	80·0	54·8	65·5	63·5	6·6	11·0	2·3	+ 2·9	Calm	SW	2·5	0·0	0·1	110	0·00
30	Perigee	29·779	76·4	51·1	62·8	57·4	81·0	46·5	66·0	64·0	5·4	9·2	2·5	+ 1·4	Calm	NE; Calm	0·0	0·0	0·0	20	0·22
31	..	29·799	70·6	55·2	60·3	56·0	79·0	55·0	66·0	64·0	4·3	8·3	3·7	— 1·1	Calm	SW	0·0	0·0	0·0	95	0·00
Aug. 1	..	29·733	78·4	60·7	68·3	63·0	85·0	60·0	67·0	64·5	5·3	10·8	2·0	+ 6·9	SW	W	0·0	0·0	0·0	50	0·01
2	In Equator	29·889	76·4	60·2	66·1	60·0	86·0	60·0	68·0	65·4	6·1	10·2	3·2	+ 4·7	NW	Calm	0·0	0·0	0·0	75	0·00
3	..	29·934	78·6	60·2	66·6	58·9	..	48·0	69·0	66·0	7·7	11·4	1·6	+ 4·8	W	W	0·0	0·0	0·0	115	0·00
4	First Qr.	29·988	81·8	57·0	67·7	60·3	94·0	50·0	69·5	66·5	7·4	12·8	0·8	+ 6·2	W	NE; E	0·0	0·0	0·0	75	0·00
5	..	30·107	71·6	55·1	62·2	53·2	87·0	52·5	69·8	67·0	9·0	12·8	5·0	+ 0·7	NE	ENE	2·0	0·0	0·3	115	0·00
6	..	29·975	67·8	51·4	58·0	50·2	73·0	52·0	67·8	66·4	7·8	10·6	3·8	— 3·5	NE	NE	1·0	0·0	0·2	110	0·00
7	..	29·934	78·8	54·2	65·1	57·4	89·0	51·0	68·2	67·0	7·7	15·6	5·2	+ 3·6	NNE	NE	2·0	0·0	0·1	105	0·00
8	Greatest Declination S.	29·884	81·6	53·9	68·3	57·4	96·0	49·0	68·0	66·0	10·9	18·6	1·4	+ 6·8	N	NE	0·0	0·0	0·0	95	0·00
9	..	29·901	70·4	54·2	61·1	54·8	74·0	48·0	67·5	66·0	6·3	9·5	1·4	— 0·3	NNE	NNE	0·0	0·0	0·0	70	0·00
10	..	29·954	67·5	54·1	58·7	51·9	..	51·0	67·0	65·0	6·8	9·4	3·6	— 2·7	NNE	N; Calm	0·0	0·0	0·0	10	0·00
11	Full	29·976	74·3	53·4	63·5	51·2	79·0	48·0	67·5	65·5	12·3	15·5	0·4	— 1·2	E	E; SE	0·0	0·0	0·0	70	0·00
12	..	29·925	82·0	54·8	69·3	60·9	98·0	50·0	67·8	65·2	8·4	13·1	1·4	+ 7·9	SW	S	0·0	0·0	0·0	25	0·00
13	..	29·799	81·9	61·8	69·8	64·7	99·0	55·0	68·2	66·8	5·1	9·2	4·0	+ 8·4	S	Calm	0·0	0·0	0·0	85	0·01
14	Apogee	29·750	73·8	54·1	64·4	57·1	86·0	46·4	68·4	67·2	7·3	11·9	0·0	+ 3·0	W	SW	2·0	0·0	0·3	150	0·00
15	..	29·785	77·9	56·5	65·7	55·8	89·0	50·0	68·5	66·5	9·9	16·4	0·0	+ 4·4	WSW	NW	0·0	0·0	0·0	70	0·00
16	In Equator	29·846	75·6	51·1	63·9	55·2	80·0	48·0	68·5	67·0	8·7	13·2	3·2	+ 2·7	W	SW; S	0·0	0·0	0·0	100	0·00
17	..	29·761	77·0	59·2	65·9	58·9	..	53·0	68·8	67·0	7·0	11·4	1·3	+ 2·0	SW	SW	3·5	0·0	0·2	145	0·71
18	..	30·024	67·3	51·4	57·7	51·6	74·0	48·0	68·5	66·8	6·1	11·5	3·8	— 3·3	N	NNE; Calm	0	0·0	0·0	55	0·00
19	..	30·210	71·5	42·4	56·0	47·8	95·0	36·0	68·4	65·2	11·2	16·8	1·4	— 1·9	Calm	Calm	0·0	0·0	0·0	110	0·00
20	Last Qr.	30·096	79·6	49·4	65·4	51·0	85·0	42·0	68·2	67·2	14·4	18·5	4·2	+ 4·7	Calm	SW	0·0	0·0	0·0	100	0·00
21	..	29·927	79·8	55·3	67·8	57·6	82·0	48·0	68·8	67·0	10·2	17·3	1·8	+ 7·2	Calm	W	2·0	0·0	0·1	135	0·00
22	..	29·837	79·8	58·2	68·2	58·6	..	51·5	69·0	67·5	9·6	15·9	4·2	+ 7·7	WSW	SW	2·0	0·0	0·1	75	0·00
23	Greatest Declination N.	29·735	72·3	58·7	63·5	56·2	..	50·0	69·2	68·0	7·3	10·4	2·7	+ 3·1	SW	SW; Calm	1·0	0·0	0·0	140	0·00
24	..	29·720	73·6	52·4	61·0	50·9	..	44·0	68·0	65·5	10·1	11·2	5·3	+ 0·7	S	SW	11·0	0·0	0·7	200	0·20
25	..	29·966	72·0	48·6	60·3	47·3	78·0	39·5	67·0	65·0	13·0	16·7	5·0	+ 0·1	Calm	W	0·0	0·0	0·0	105	0·00

MONTH and DAY, 1851.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
28	m : o : o	o	o	o
29	o	o	o	o
30	o	s	o	o : o : r, ci.-s, li. cl
July 1	s, N	s, N	10, ci.-s, li.-cl, sc, r	10, ci.-s, li.-cl, sc : l, t
2	o	o	7, ci.-s, li.-cl	o
3	o	o	10, ci.-s	o : 10, ci.-s
4	o	o	10, ci.-s	5, ci.-s, li.-cl : o
5	o	o	o	o
6	o	o	10, ci.-s, li.-cl	10, ci.-s, li.-cl
7	o	o	7, cu.-s, ci.-s, li.-cl	10, cu.-s, ci.-s, li.-cl
8	o	s, N, sps : o	10, cu, cu.-s, li.-cl, fr.-shs	9, cu, cu.-s, li.-cl : 10, l, t, h.-r
9	o	o	10, ci.-s	10, ci.-s, li.-shs
10	o	s, N, sps, g. cur : o	10, cu.-s, ci.-s, sc	10, cu.-s, t, sqs.-r : o
11	o	o	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s
12	m	m	7, cu, ci.-s, li.-cl	7, cu, ci.-s, li.-cl : o
13	o	o : o : m	10, ci.-s	10, ci.-s
14	o	s, N, sps : o	7, cu.-s, ci.-s, li.-cl, sqs.-w.-r	4, cu.-s, ci.-s, li.-cl
15	o	s, N, sps : o	o	7, cu, cu.-s, ci.-s, shs.-r
16	o	s : o	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s
17	o	s, N : o	10	10 : l, t, h.-r : 10
18	o : o : s, P	o	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci,-s
19	w	o	10	10, h.-r
20	o	o	10, ci-s, sc, r	10, ci.-s, sc.-r
21	o	o : o : w	o	5, ci.-s, li.-cl : o
22	o : o : w	o	o	5, cu, ci.-s, li.-cl : 10, ci.-s
23	o	o	10, ci.-s, sc, h.-r	10, ci.-s, sc, t : h.-r
24	o	o	10, ci.-s, sc, r	10, ci.-s, sc, r
25	o	o : s, P : o	10, cu.-s, ci.-s, li.-cl	10, cu.-s, ci.-s, li.-cl
26	o	o	10	10 : sh.-r : 0
27	o	o	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc : l.-r
28	o	o	10, ci.-s, sc, shs.-r	10, ci.-s, sc, shs.-r
29	o	o	7, cu, cu.-s, ci.-s	3, cu, cu.-s, ci.-s : v
30	o	o : s, N : o	3, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s : h.-r, t
31	o	o	10, ci.-s	10, ci.-s : 9, ci.-s : 10, ci.-s, r
Aug. 1	o	o	10, cu, cu.-s, ci.-s	10, cu, cu.-s. ci.-s : r
2	v	v	10, cu, cu.-s, ci.-s	5, cu, cu.-s, ci.-s : 10, ci.-s
3	o	o	7	o
4	o	o	o	3, cu, cu.-s : 10, ci.-s
5	o	o : o : s	7, cu, cu.-s, li.-cl	7, : o : 10, cu, ci.-s
6	o	m : o	10, ci.-s	10, ci.-s
7	o	s : o	10, cu, cu,-s, ci.-s	o
8	v	v	2	o
9	o	o	10, ci.-s	10, ci.-s
10	s	s	10, ci.-s	10, ci.-s
11	o	o	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s : o
12	o	o : s	7	5 : 10
13	v : s, N, sps, g. cur	v	10, cu, cu.-s, ci.-s : h.-r	10 : v, l, t
14	o	o	7, cu.-s, ci.-s	10, cu.-s, ci.-s : v, cu.-s, ci.-s
15	o	o	5, cu, cu.-s, ci.-s	3, cu, cu.-s : 10, ci-s
16	m	m	10, ci.-s, m.-r	10, ci.-s, m.-r
17	s	o	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc, h.-r : l
18	o	o	10, cu.-s, ci.-s	7, cu.-s, ci.-s : o
19	o	o	o	o
20	o	s : o	o	7 : o
21	m	m	7, s, ci	o
22	w	o	2 : o	o : 2 : o
23	o	o	10, ci.-s : r	10, ci.-s : o
24	o	o	10, ci.-s, li.-cl, sc, h.-shs	10, ci.-s, li.-cl, sc : o
25	o	o	7, ci.-s	7, ci.-s : 10, ci.-s

MONTH and DAY, 1851.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h P. M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	P. M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Aug. 26	New	29·857	65·5	47·2	56·6	50·5	..	40·0	66·5	64·5	6·1	13·8	3·1	— 3·6	W; SW	SSW	6·0	0·0	1·0	205	0·09
27	Perigee	29·833	69·6	56·2	61·1	50·8	73·0	47·8	65·5	63·2	10·3	14·3	4·6	+ 1·0	SW; W	W	3·6	0·0	0·5	165	0·00
28	..	29·597	62·2	50·4	54·4	43·8	69·0	52·8	64·8	62·0	10·6	13·5	6·2	— 5·6	Calm	NW	5·0	0·0	0·4	150	0·30
29	In Equator	29·620	60·4	45·4	49·4	44·1	65·0	40·0	63·5	60·0	5·3	9·8	3·5	—10·6	W	NE	4·8	0·0	0·4	165	0·15
30	..	29·969	61·7	47·2	52·3	43·1	..	39·5	63·0	60·5	9·2	12·9	5·7	— 7·6	NE	N	4·0	0·0	0·5	130	0·00
31	..	30·064	64·8	42·2	54·3	45·7	..	35·0	62·0	59·5	8·6	11·4	4·1	— 5·5	Calm	NW	0·0	0·0	0·0	50	0·00
Sep. 1	..	30·036	76·6	55·2	64·6	56·1	..	46·0	62·2	60·0	8·5	12·9	5·2	+ 4·9	Calm	W	0·0	0·0	0·0	110	0·00
2	First Qr.	29·942	75·6	57·6	65·0	58·3	..	52·0	62·0	59·0	6·7	11·4	2·3	+ 5·4	NW	NNW	0·0	0·0	0·0	80	0·12
3	..	29·980	74·2	58·7	64·4	57·6	..	55·3	63·2	60·6	6·8	12·6	1·8	+ 4·9	Calm	NE	0·0	0·0	0·0	30	0·01
4	..	29·921	70·7	54·7	60·7	56·2	..	46·9	63·5	61·8	4·5	11·1	1·0	+ 1·4	NE	NNE	0·0	0·0	0·0	90	0·01
5	Greatest Declination S.	30·042	70·0	49·0	58·0	47·7	..	42·0	64·0	61·6	10·3	14·4	4·6	— 1·2	NNE	NNE	2·5	0·0	0·1	120	0·00
6	..	30·211	66·2	50·6	56·8	43·7	..	44·8	63·2	61·0	13·1	17·0	7·8	— 2·3	NNE	NNE	2·5	0·0	0·2	125	0·00
7	..	30·340	66·9	45·4	56·9	44·9	..	36·1	62·6	60·5	12·0	18·7	6·7	— 2·0	N	NNE	2·0	0·0	0·1	80	0·00
8	..	30·375	63·2	50·6	58·2	50·2	..	48·1	61·8	59·6	8·0	12·6	5·0	— 0·6	NNE	NNE	0·0	0·0	0·0	50	0·00
9	..	30·362	67·6	45·4	56·5	42·4	..	38·0	62·0	59·6	14·1	18·7	3·5	— 2·2	Calm	E	0·0	0·0	0·0	45	0·00
10	Full Apogee	30·377	69·2	37·6	57·5	43·8	..	33·5	62·0	59·6	13·7	16·5	3·3	— 1·1	Calm	E	0·0	0·0	0·0	35	0·00
11	..	30·302	70·1	39·4	56·6	46·9	..	33·5	62·0	59·2	9·7	15·9	3·8	— 1·9	Calm	NE	0·0	0·0	0·0	20	0·00
12	In Equator	30·211	67·7	40·5	55·7	47·7	..	34·0	61·5	59·0	8·0	12·6	4·6	— 2·6	SE	Calm	0·0	0·0	0·0	5	0·00
13	..	30·192	72·4	43·8	58·2	47·7	..	38·0	61·8	59·0	10·5	18·6	0·0	0·0	Calm	NE	0·0	0·0	0·0	20	0·00
14	..	30·299	72·4	39·1	56·2	46·3	..	34·8	61·8	59·2	9·9	13·3	2·8	— 1·9	Calm	Calm	0·0	0·0	0·0	20	0·00
15	..	30·416	69·4	45·8	57·2	49·2	..	47·5	61·5	59·2	8·0	13·5	3·0	— 0·8	Calm	ENE	0·0	0·0	0·0	55	0·00
16	..	30·416	70·2	45·5	58·2	46·8	..	37·0	61·5	59·0	11·4	15·8	3·9	+ 0·4	Calm; NE	NE	0·0	0·0	0·0	75	0·00
17	..	30·251	69·3	50·9	58·4	47·6	..	51·0	61·4	59·0	10·8	15·0	6·9	+ 1·0	NE	NE	2·5	0·0	0·3	95	0·00
18	Last Qr.	30·083	68·9	48·4	57·0	47·7	..	40·0	60·8	58·8	9·3	16·2	4·2	— 0·1	NE	NNE	3·5	0·0	0·6	145	0·00
19	Greatest Declination N.	29·920	67·2	49·3	57·9	48·2	..	41·8	60·5	58·5	9·7	14·4	1·2	+ 1·2	NNE	NNE	0·0	0·0	0·0	70	0·00
20	..	29·947	69·3	50·5	56·2	50·1	..	46·0	60·2	58·5	6·1	14·0	4·0	— 0·1	NNE	NE	0·0	0·0	0·0	70	0·00
21	..	29·889	65·0	47·2	55·2	49·3	..	37·8	59·6	57·5	5·9	9·3	..	— 3·5	NNE	N	2·0	0·0	0·3	90	0·00
22	..	29·910	68·3	51·2	57·7	51·7	..	41·0	60·0	58·0	6·0	10·9	3·0	+ 2·1	N	N	0·0	0·0	0·0	50	0·00
23	..	29·986	71·7	43·2	58·7	49·7	..	35·2	60·0	58·2	9·0	14·3	4·0	+ 3·4	Calm	Calm	0·0	0·0	0·0	20	0·00
24	Perigee	29·929	70·5	54·8	59·2	53·5	..	48·8	60·5	58·5	5·7	13·7	1·8	+ 4·1	Calm	Calm	0·0	0·0	0·0	20	0·09
25	New In Equator	29·579	64·7	48·0	55·6	49·2	..	43·5	60·0	57·6	6·4	10·4	5·4	+ 0·8	Calm; SW	SW; NW	6·0	0·0	0·6	155	0·01
26	..	29·539	55·9	42·9	47·1	34·9	..	41·0	59·0	56·2	12·2	14·7	9·0	— 7·5	W	W	3·0	0·0	0·5	235	0·00
27	..	29·570	60·5	43·4	50·4	42·8	..	37·0	58·0	55·6	7·6	11·2	4·4	— 4·0	SW	W; Calm	4·0	0·0	0·3	30	0·05
28	..	29·820	60·3	44·0	49·6	41·4	..	35·5	58·5	55·5	8·2	9·3	5·1	— 4·5	Calm	N	0·0	0·0	0·0	25	0·00
29	..	29·590	61·0	38·0	51·0	41·8	..	30·0	57·8	55·5	9·2	14·2	5·9	— 2·8	Calm	S	0·0	0·0	0·0	115	0·00
30	..	29·305	62·2	48·0	53·3	49·9	..	40·0	57·2	55·0	3·4	8·7	2·8	— 0·3	SSE	S	2·0	0·0	0·1	125	0·14
Oct. 1	..	29·015	61·5	50·2	55·1	49·3	..	44·0	57·0	55·0	5·8	8·6	3·8	+ 1·7	S	SSE	6·0	0·0	1·2	195	0·17
2	First Quarter Greatest Dec. S	29·240	58·5	46·5	51·1	45·0	..	39·5	56·8	54·5	6·1	10·6	5·0	— 2·1	S	S	1·2	0·0	0·1	130	0·20
3	..	29·392	63·5	48·8	55·5	49·3	..	42·0	56·6	54·5	6·2	10·2	3·2	+ 2·5	SSE	S	3·6	0·0	0·2	125	0·05
4	..	29·362	65·7	49·2	57·1	49·3	..	46·0	56·5	54·5	7·8	13·3	4·0	+ 4·3	S	SW	4·5	0·0	0·2	140	0·05
5	..	29·531	61·6	46·2	52·8	44·2	..	41·8	56·5	54·5	8·6	10·3	3·9	+ 0·2	SW	SW	4·2	0·0	0·8	265	0·00
6	..	29·621	62·5	46·4	53·8	43·8	..	39·0	56·0	54·0	10·0	15·3	6·8	+ 1·5	SW	W	3·6	0·0	0·7	140	0·25
7	Apogee	29·584	61·4	45·5	53·8	48·8	..	38·0	55·6	53·8	5·0	7·8	4·1	+ 1·8	SW	SW	5·0	0·0	0·6	145	0·05
8	..	29·750	59·9	44·5	51·1	40·8	..	35·0	55·5	53·5	10·3	15·5	4·6	— 0·7	SW	W	2·4	0·0	0·2	65	0·00
9	In Equator	29·694	58·2	38·4	50·8	48·1	..	34·0	55·5	53·5	2·7	4·0	1·7	— 0·7	SW	SW	2·4	0·0	0·1	130	0·12
10	Full	29·923	70·1	56·5	61·2	56·3	..	46·0	56·0	54·0	4·9	7·1	3·2	+10·0	SW	SW	0·0	0·0	0·0	105	0·00
11	..	30·100	67·8	52·4	58·7	53·3	..	46·0	56·2	54·4	5·4	10·1	3·0	+ 7·9	SW	SW	1·0	0·0	0·0	105	0·00
12	..	30·144	70·0	54·4	60·4	54·3	..	47·0	57·0	55·0	6·1	11·6	2·7	+ 9·7	SW	SW	0·0	0·0	0·0	150	0·00
13	..	29·955	65·1	54·5	57·7	51·8	..	50·0	57·2	55·0	5·9	10·1	4·0	+ 7·3	SW	SW	1·0	0·0	0·1	115	0·00
14	..	29·794	64·4	48·0	55·5	48·3	..	50·0	57·5	55·5	7·2	10·3	4·4	+ 5·4	SW	W	0·0	0·0	0·0	90	0·02
15	..	29·236	59·4	46·5	51·3	48·1	..	41·5	57·4	54·6	3·2	4·6	2·9	+ 1·6	S	SW; NW	5·0	0·0	0·3	175	0·45
16	..	29·408	56·6	37·4	46·5	37·9	..	31·0	56·8	54·2	8·6	13·8	2·6	— 2·5	SW	SW	0·0	0·0	0·0	55	0·01
17	Greatest Declination N.	29·742	52·8	34·7	45·9	33·0	..	29·0	55·5	53·5	12·9	11·8	0·0	— 2·4	SW	NW; SW	0·0	0·0	0·0	110	0·00
18	Last Qr.	29·826	58·8	39·3	52·1	47·3	..	35·0	55·5	53·8	4·8	7·8	2·9	+ 4·4	S	WSW	3·5	0·0	0·5	180	0·00
19	..	29·888	61·6	54·5	58·1	51·1	..	45·0	56·4	54·5	6·8	7·8	3·4	+ 9·9	WSW	SW	0·0	0·0	0·0	135	0·00
20	..	29·969	63·8	54·7	58·3	54·1	..	49·0	56·2	54·5	4·2	5·6	2·8	+10·5	SW	SW	0·0	0·0	0·0	15	0·00
21	..	29·869	62·9	53·3	56·4	50·5	..	49·0	56·0	54·5	5·9	9·0	3·8	+ 8·9	Calm	E	0·0	0·0	0·0	15	0·00
22	..	29·918	54·4	51·5	51·7	46·2	..	50·8	56·0	54·4	5·5	11·6	3·8	+ 4·4	Calm	Calm	0·0	0·0	0·0	5	0·00
23	Perigee In Equator	30·134	57·8	50·5	53·2	45·8	..	50·5	55·8	54·4	7·4	11·0	4·2	+ 5·9	Calm	Calm	0·0	0·0	0·0	..	0·00

MONTH and DAY, 1851.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Aug. 26	o	o	10, ci.-s	10, ci.-s, h.-r : v
27	o	m : o	10, cu.-s, ci.-s, li.-cl	10, cu.-s, ci.-s, li.-cl : r
28	o	o	7, cu. cu.-s, ci.-s	10, cu, cu.-s, ci.-s : o
29	s, N, sps, g. cur : o	o : o : w	10, shs.-r	10, shs.-r : 7 : 10
30	w	w	10, ci.-s	10, ci.-s : o
31	m	m	10, cu.-s, ci.-s, h	8, cu.-s, ci.-s : 10, cu.-s, ci.-s
Sep. 1	o	o : o : w	10, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s
2	v	v	10, ci.-cu, ci.-s, r	7, ci.-cu, ci.-s
3	s	s	10, cu, cu.-s, ci.-s	v, cu, cu.-s, ci.-s : o
4	v, w : o : o	o	10, ci.-s	10, ci.-s
5	o	o	v, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s
6	o	o	7, cu.-s, ci.-s, li.-cl	7, cu.-s, ci.-s, li.-cl
7	o	o	v, cu.-s, ci.-s	v, cu.-s, ci.-s : 10, ci.-s
8	o	o : o : w	10, ci,-cu, ci.-s, li.-cl	10, ci.-cu, ci.-s, li.-cl
9	o	s : o	o	o
10	o	s : o	o, h	o
11	o	v : o	o, h	o
12	o : m	o	o, th.-h	o
13	o	s : o	o, th.-f	o
14	o	o	o	o
15	o	o	10, ci.-s	7, ci.-cu, ci.-s, sc : o
16	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s
17	o	o	10, ci.-cu, ci.-s, li.-cl, m.-r	v, ci.-cu., ci.-s, li.-cl
18	o	o	7, cu, ci.-cu, ci.-s	7, cu, ci.-cu., ci.-s : o
19	o	o	7, cu.-s, ci.-s	7, cu.-s, ci.-s, r
20	o	o	10, ci.-s	10, ci.-s, sl.-r : o
21	o	o	10, ci.-s	10, ci.-s
22	o	o	10, ci.-s, li.-cl	10, ci.-s : o
23	o	o	o	5, ci.-s, h : 10, ci.-s
24	o	o	10, s, li.-cl	10, s, li.-cl : o
25	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s, r
26	o	o	5, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s : v
27	o	o	8, cu.-s, ci.-s	10, cu.-s, ci.-s, m.-r
28	o	o	v	v : o
29	o	o	10, cu.-s, ci.-s, sc	5, cu.-s, ci.-s, sc : v, a
30	o	o	10, ci.-s, r	10, ci.-s, r
Oct. 1	o	o	5, ci.-s	10, ci.-s, r
2	s	s	v, cu, ci.-s, r	v, cu, ci.-s, r : a
3	s	s	5, cu, cu.-s, ci.-s	5, cu, cu.-s, ci.-s : o
4	s	s	10, cu, cu.-s, r	v, cu, cu.-s : o
5	o	o : o : m	5, cu, ci.-s, sc	5, cu, ci.-s, sc : o
6	o	o	7, cu, cu.-s, ci.-s	5, cu, ci.-s : 10, r
7	o	s	10, ci.-s, r	10, ci.-s : 7, ci.-s
8	s	s	5, cu, ci.-s, li.-cl	v, cu, ci.-s, li.-cl
9	o	o	10, ci.-s, r	10, ci.-s, r
10	o	o	10, ci.-s, sc, li.-cl	7, ci.-s, sc. li.-cl : v
11	o	o	10, cu.-s, ci.-s, sc	o : v
12	o : m : o	o	7, ci.-s	7, ci.-s
13	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s, r
14	o	o	7, ci.-s, sc	10, ci.-s, sc
15	o	o	10, ci.-s, r	10, ci.-s, r
16	o	o	o : 5, cu, cu.-s	5, cu, cu.-s : o
17	o	o	o	7, cu.-s, ci.-s, h : o
18	o	o	10, ci.-s, sl.-r	10, ci.-s, sl.-r
19	o	o	10, ci.-s	10, ci.-s
20	o	o	10, ci.-s	10, ci.-s
21	o	o	10, cu.-s, ci.-s, sc, sl.-r	10, cu.-s, ci.-s, sc
22	o	o	10, ci.-s	10, ci.-s
23	o	w : o	10, ci.-s	10, ci.-s

MONTH and DAY, 1851.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h P. M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obss.	Whewell's. Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Oct. 24	New	30·258	59·1	50·9	53·9	49·3	..	50·0	55·8	54·2	4·6	7·9	3·8	+ 6·7	Calm	NE	0·0	0·0	0·0	20	0·00
25	..	30·256	55·8	43·1	50·0	45·6	..	37·3	55·8	53·8	4·4	8·6	3·8	+ 3·0	NE	NE	0·0	0·0	0·0	15	0·00
26	..	30·043	56·6	43·4	49·9	44·0	..	48·0	55·5	53·5	5·9	8·7	0·5	+ 3·1	NE	WSW	0·0	0·0	0·0	55	0·00
27	..	29·981	58·8	45·5	51·3	45·0	..	36·0	55·5	53·2	6·3	9·4	1·8	+ 4·5	WSW	N	0·0	0·0	0·0	40	0·00
28	..	29·786	53·8	43·5	48·4	42·7	..	34·8	54·8	52·5	5·7	7·4	4·8	+ 1·7	N	SW	3·3	0·0	0·3	140	0·00
29	Greatest Declination S.	29·218	49·6	40·5	42·8	37·3	..	36·0	54·0	51·6	5·5	9·2	2·4	— 3·9	NW; SW; W	NW; N	0·0	0·0	0·0	85	0·36
30	..	29·393	51·2	37·5	43·5	37·7	..	33·8	53·2	50·5	5·8	10·5	3·8	— 3·2	NW	N	4·3	0·0	0·9	150	0·02
31	First Qr.	29·487	49·0	38·2	42·2	35·0	..	34·8	51·8	49·6	7·2	10·6	2·7	— 4·5	N	N; W	0·0	0·0	0·0	70	0·00
Nov. 1	..	29·450	53·4	37·7	45·2	38·1	..	31·0	52·0	49·2	7·1	11·0	4·1	— 1·5	SW	W; Calm	0·0	0·0	0·0	105	0·00
2	..	29·297	50·4	36·3	43·9	36·3	..	28·5	51·0	48·0	7·6	8·6	4·2	— 2·7	SW	NW; W	4·0	0·0	0·2	150	0·09
3	..	29·709	43·4	31·8	36·7	28·4	..	24·0	49·6	46·8	8·3	12·7	4·9	— 9·9	W	NNW; W	1·0	0·0	0·0	45	0·00
4	Apogee	29·745	40·4	30·8	35·2	31·0	..	21·0	48·8	46·2	4·2	7·7	2·3	—11·3	SW; N	N	4·5	0·0	0·6	105	0·02
5	..	29·857	44·9	27·8	37·2	29·2	..	20·0	48·0	44·5	8·0	11·3	7·4	— 9·2	N; W	W	1·0	0·0	0·0	120	0·00
6	In Equator	29·735	47·4	31·0	41·4	33·0	..	25·0	47·2	44·0	8·4	10·6	0·0	— 4·8	W; N	N	3·0	0·0	0·3	150	0·01
7	..	29·680	48·0	39·0	42·9	38·3	..	32·0	46·5	43·5	4·6	7·6	1·0	— 3·1	N	N	4·0	0·0	0·2	70	0·05
8	Full	29·766	49·4	37·7	42·5	38·2	..	30·0	46·8	43·2	4·3	9·5	0·0	— 3·3	N	Calm	0·0	0·0	0·0	10	0·00
9	..	29·749	46·2	39·6	42·9	38·3	..	34·0	46·8	43·0	4·6	5·5	2·9	— 2·7	Calm	Calm	0·0	0·0	0·0	30	0·03
10	..	29·559	49·4	38·8	43·5	37·7	..	38·0	46·2	43·0	5·8	10·4	2·4	— 1·9	Calm	N	0·0	0·0	0·0	40	0·16
11	..	29·960	52·2	33·4	42·7	36·9	..	25·4	46·2	43·0	5·8	10·6	2·6	— 2·5	E	N	0·0	0·0	0·0	90	0·01
12	..	30·168	48·4	37·8	40·9	36·6	..	28·8	45·8	43·2	4·3	7·0	2·8	— 4·1	N	N	0·0	0·0	0·0	5	0·00
13	Greatest Declination N.	30·307	46·4	33·6	40·7	37·6	..	27·0	45·5	43·2	3·1	5·8	0·0	— 4·1	N	WSW; W	0·0	0·0	0·0	80	0·00
14	..	30·161	47·3	34·0	39·4	31·1	..	33·0	45·0	42·6	8·3	10·8	6·5	— 5·4	NW; N	N	4·0	0·0	0·3	75	0·00
15	..	29·880	37·4	28·0	31·3	26·5	..	20·0	44·5	42·0	4·8	8·0	3·1	— 3·1	NW	Calm	0·0	0·0	0·0	40	0·00
16	Last Qr.	29·731	42·2	26·7	34·8	27·5	..	18·5	43·8	41·0	7·3	..	..	— 9·4	W	N	0·0	0·0	0·0	100	0·00
17	..	29·711	37·8	28·6	31·7	25·5	..	23·0	42·5	39·5	6·2	11·2	4·7	—12·3	N	N; NW	4·0	0·0	0·8	130	0·00
18	..	29·760	40·1	30·3	34·1	28·4	..	24·0	41·5	39·5	5·7	11·0	0·7	— 9·8	N	N	3·5	0·0	0·3	75	0·00
19	In Equator	29·692	37·4	24·3	30·8	22·3	..	17·0	41·0	37·0	8·5	10·4	7·3	—13·1	W	W	0·0	0·0	0·0	10	0·00
20	Perigee	29·835	42·8	29·1	35·2	27·9	..	20·0	40·5	37·0	7·3	12·0	4·0	— 8·6	W; N	N	2·5	0·0	0·2	85	0·00
21	..	29·758	45·4	29·6	38·8	31·8	..	23·0	40·5	37·0	7·0	11·5	3·1	— 5·0	W; SW	N	5·5	0·0	0·7	170	0·01
22	..	29·962	45·8	37·2	40·4	32·5	..	31·0	40·5	37·5	7·9	12·0	6·0	— 3·3	N	N	5·0	0·0	0·6	115	0·00
23	New	29·825	42·4	31·7	37·0	31·2	..	26·0	40·5	37·0	5·8	7·9	3·0	— 6·6	N; NW	W; SW	0·0	0·0	0·0	115	0·00
24	..	29·362	45·5	34·7	39·9	34·4	..	32·0	40·0	36·8	5·5	9·6	3·4	— 3·6	S; SW	N	5·0	0·0	0·6	75	0·19
25	..	29·392	42·9	30·7	35·1	30·7	..	26·0	39·8	36·8	4·4	7·9	3·7	— 8·3	Calm	NW	0·0	0·0	0·0	15	0·00
26	Greatest Declination S.	29·567	37·2	25·9	32·1	28·8	..	22·0	39·5	36·8	3·3	5·0	2·0	—11·1	Calm; NE	N; NW	0·0	0·0	0·0	30	0·00
27	..	29·721	39·7	33·9	36·3	30·8	..	28·0	39·2	36·8	5·5	7·0	4·2	— 9·7	WNW; NNW	N; NW	0·0	0·0	0·0	20	0·01
28	..	29·925	41·5	32·1	36·0	31·6	..	22·0	38·5	36·6	4·4	7·4	2·8	— 6·8	Calm	NW	0·0	0·0	0·0	5	0·00
29	..	30·062	39·6	28·9	33·9	28·4	..	23·0	38·0	36·6	5·5	8·8	2·6	— 8·7	Calm	Calm	0·0	0·0	0·0	10	0·00
30	First Qr.	30·091	43·9	30·4	34·5	31·9	..	22·0	38·0	36·5	2·6	3·9	1·9	— 8·0	Calm	Calm	0·0	0·0	0·0	..	0·00
Dec. 1	..	30·155	37·9	28·7	33·6	30·7	..	25·0	38·0	36·4	2·9	5·3	1·5	— 8·8	Calm	NNW	0·0	0·0	0·0	..	0·00
2	Apogee	30·137	41·9	33·4	37·7	31·9	..	28·5	38·0	36·4	5·8	7·9	3·6	— 4·6	NNW	NW	0·0	0·0	0·0	25	0·00
3	In Equator	30·150	40·9	32·7	37·9	32·4	..	23·0	37·8	36·4	5·5	8·3	4·3	— 4·3	NW	WSW	0·0	0·0	0·0	20	0·00
4	..	30·147	39·4	30·9	35·8	30·6	..	25·5	38·2	36·5	5·2	9·3	3·3	— 6·3	NNW	WSW	0·0	0·0	0·0	45	0·01
5	..	30·141	48·7	39·1	45·1	41·2	..	41·0	39·0	36·8	3·9	7·5	2·8	+ 3·1	SW	Calm	0·0	0·0	0·0	10	0·02
6	..	30·120	48·7	45·9	47·2	39·3	..	44·0	40·0	37·5	7·9	9·2	4·8	+ 5·2	SW	SW	0·0	0·0	0·0	125	0·00
7	..	30·075	50·1	44·7	47·5	40·9	..	44·0	41·2	38·5	6·6	7·4	5·7	+ 5·6	SW	SW	0·0	0·0	0·0	215	0·00
8	Full	29·938	53·4	42·7	48·6	40·5	..	39·0	41·5	38·8	8·1	11·8	4·6	+ 6·7	SW	W	4·0	0·0	1·0	115	0·00
9	..	30·030	53·3	37·9	49·1	45·6	58·0	32·0	43·0	39·2	3·5	4·8	2·6	+ 7·3	SSW	SW	0·0	0·0	0·0	190	0·00
10	Greatest Declination N.	29·919	54·8	49·6	51·5	45·5	..	46·0	44·0	40·5	6·0	7·8	5·7	+ 9·8	SW	SSW	3·5	0·0	0·4	180	0·00
11	..	30·353	50·8	37·4	43·4	37·6	52·0	26·5	43·8	40·5	5·8	7·9	2·5	+ 1·8	WSW	Calm	0·0	0·0	0·0	20	0·00
12	..	30·371	39·6	29·7	33·0	31·0	41·0	27·0	43·6	40·5	2·0	3·7	0·0	— 8·5	Calm	Calm	0·0	0·0	0·0	25	0·00
13	..	30·296	43·4	36·1	40·5	37·6	43·4	32·0	43·5	40·5	2·9	6·2	2·4	— 0·9	E	Calm	0·0	0·0	0·0	55	0·00
14	..	30·372	42·4	38·4	39·4	37·4	43·0	36·0	43·5	40·6	2·0	2·3	0·0	— 1·9	Calm	Calm	0·0	0·0	0·0	40	0·00
15	Last Qr.	30·300	39·4	34·7	35·7	32·1	40·0	37·0	43·0	40·5	3·6	5·0	2·6	— 5·4	Calm	Calm	0·0	0·0	0·0	20	0·00
16	Perigee	30·247	44·4	36·9	41·5	36·7	45·0	35·5	43·2	40·5	4·8	6·4	4·3	+ 0·6	Calm	Calm	0·0	0·0	0·0	15	0·00
17	In Equator	30·171	45·6	39·7	42·2	36·7	47·0	37·0	43·2	40·2	5·5	6·9	4·3	+ 1·5	Calm	SE	0·0	0·0	0·0	35	0·00
18	..	30·061	40·3	32·8	36·0	32·6	44·0	34·0	43·2	40·5	3·4	5·0	2·5	— 4·3	SE	S	0·0	0·0	0·0	90	0·00
19	..	30·015	53·1	38·7	46·8	40·6	59·0	35·0	43·5	40·8	6·2	11·2	3·5	+ 6·8	SW	S	0·0	0·0	0·0	160	0·00
20	..	29·940	52·4	46·9	49·0	44·6	53·0	38·5	44·4	41·5	4·4	6·3	3·5	+ 9·4	S	SW	0·0	0·0	0·0	70	0·05
21	..	29·556	49·9	44·2	46·5	41·0	50·0	42·3	44·5	41·0	5·5	7·7	3·5	+ 7·2	SSW	S; SW	9·0	0·0	1·0	165	0·10

MONTH and DAY, 1851.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Oct. 24	o	o	10, ci.-s	10, ci.-s
25	o	o	10, ci.-s	10, ci.-s
26	o	o	10	v : 10
27	o	o	10, ci.-s, h	10, ci.-s, h : o
28	o	o	10	10 : r
29	o	o	10, cu.-s, h	10, cu.-s, h, r
30	o	o	5, ci-.cu, ci.-s, sc	v, ci.-cu, sc : 10, ci.-s, r
31	o	o	o : 7, cu, ci.-cu	7, cu, ci.-cu : 10, ci.-s
Nov. 1	o	o	10, ci.-s	o
2	s	s	v, cu, ci.-s, sc, hl, r	v, cu, ci.-s, sc, hl, r : o
3	o	o	7, cu, ci.-cu, h	v, cu, ci.-cu : o
4	o	o	10, ci.-s, r, sl : o	7, ci.-s : o
5	o	o	10, s, h	10, s, h : r
6	o	o	o : 10, ci.-s, h	10, ci.-s, h
7	w	S, sps : w	10, cu, ci.-cu, s, sc	10, cu, ci.-cu, sc, r : v
8	o	o	10, ci.-cu, ci.-s, h	10, ci.-cu, ci.-s, h
9	o	o	10, ci.-s	10, ci.-s
10	o	s	7, ci.-cu, s, sc	7, ci.-cu, s, sc : 10, ci.-cu, s, sc
11	m	m	7 : o	o : 10
12	o	m	10, ci.-cu, s	o
13	s, P, sps.	s P, sps	10, ci.-s, f	10, ci.-s, f
14	o	o : o : w	o	7 : o
15	o	o : s : o	10, ci.-cu, ci.-s, h	10, ci.-cu, ci.-s : o
16	s	s	10, s, h	o
17	o	o : m : o	o	10, cu.-s, ci.-s : o
18	o	w	o : 10, ci.-cu, ci.-s, h	10, ci.-cu, ci.-s, h
19	s	s	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s
20	s	s	o	o
21	o	o	10, cu.-s, ci.-s, m.-r	10, cu.-s, ci.-s : v
22	o	o	7, ci.-cu, ci.-s, r	v, ci.-cu, ci.-s
23	o	o	10, ci.-s	10, ci.-s
24	o	o	10, ci.-s, sc, h.-r	4, ci.-s, sc : 8, ci.-s, sc
25	s	s	o	o
26	s	s : o	10, ci.-s, f	10, ci.-s, f
27	o	o : o : m	10, ci.-s, f, r	10, ci.-s, f
28	o	m	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s
29	o	s	o	4, ci.-s : 10, ci.-s
30	o	o : o : m	7, ci.-cu, ci.-s	o : f
Dec. 1	o	o	o	10, ci.-s, f, r
2	o	o	10, ci.-s	10, ci.-s
3	o	o : o : w	10, ci.-s	10, ci.-s, r
4	o : s	s	o	10, ci.-s : r
5	o	o	7, ci.-cu, ci.-s : 10, ci.-s	10, ci.-cu, ci.-s
6	o	o	10, ci.-s	10, ci.-s
7	o	o	10, ci.-s : r	10, ci.-s
8	o	o	5, ci.-s, li.-cl : o	o
9	o	o	10, ci.-s	10, ci.-s : r
10	o	o	10, ci.-s, li.-cl, sc	7, ci.-s, li.-cl, sc
11	o	s	o	li.-cl, h : o
12	s, sps	s, sps	th.-f	th.-f
13	s	s	10, ci.-s	10, ci.-s
14	o	o	10, th.-f	10, th.-f
15	o	o	10, ci.-s	10, ci.-s
16	o	m : o	10, ci.-s	10, ci.-s
17	m	m	10, ci.-s	10, ci.-s
18	m	m : o	10, ci.-s	10, ci.-s
19	o	o	10 : o	o : 10, th.-r
20	o	o	10, ci.-s, th.-r	10, ci.-s, th.-r
21	o	o	10, r	10, r : v

MONTH and DAY, 1851.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers.								Difference between the Dew Point Temperature and Air Temperature.			Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 10 years.	Wind as deduced from Anemometers.					Rain in Inches read at 9h P.M.
			Dry.			Dew Point.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9 P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9 o'clock next morning.		Mean Daily Value.	Greatest.	Least.		Osler's.				Wheewell's	
			Highest.	Lowest.	Mean Daily Value.	Mean Daily Value.			Highest.	Lowest.					General Direction.		Pressure in lbs. on the square foot.			Amount of Horizontal Movement of the Air on each Day.	
															A.M.	P.M.	Greatest.	Least.	Mean of 24 Obs.	
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Dec. 22	New Greatest Declination S.	29·490	46·1	39·9	43·5	41·0	48·0	37·5	44·5	41·6	2·5	3·7	2·5	+ 4·5	S	Calm; N	0·0	0·0	0·0	150	0·35
23	..	30·023	44·4	37·9	40·3	36·5	46·5	32·0	44·5	41·6	3·8	5·5	3·3	+ 1·6	N	N	0·0	0·0	0·0	30	0·00
24	..	30·158	42·1	34·9	38·4	33·6	49·0	32·0	44·2	41·5	4·8	6·0	3·8	+ 0·1	NE	Calm	0·0	0·0	0·0	20	0·00
25	..	30·216	39·4	30·1	36·2	30·5	45·5	24·0	44·0	41·4	5·7	7·0	5·3	− 1·9	SE	Calm	0·0	0	0·0	25	0·00
26	..	30·405	41·2	28·9	33·6	27·9	43·0	27·0	43·5	40·6	5·7	9·0	3·9	− 4·3	N; E	E	0·0	0·0	0·0	15	0·00
27	..	30·321	36·1	24·9	32·1	24·7	40·0	17·0	42·5	40·5	7·4	8·3	6·8	− 5·6	Calm	Calm	0·0	0·0	0·0	25	0·00
28	..	30·293	41·1	35·8	37·7	34·2	41·0	30·0	42·6	40·5	3·5	4·8	3·1	+ 0·2	N	Calm	0·0	0·0	0·0	10	0·06
29	Apogee First Quarter. In Equator.	30·378	39·6	33·7	36·6	31·8	42·0	30·5	41·5	39·5	4·8	7·5	3·8	− 0·7	Calm	Calm	0·0	0·0	0·0	5	0·00
30	..	30·340	40·9	30·4	36·2	32·9	42·0	33·0	41·5	39·0	3·3	5·1	3·3	− 1·0	Calm	Calm	0·0	0·0	0·0	..	0·00
31	..	30·079	35·8	29·9	33·1	28·1	37·0	22·5	41·0	38·6	5·0	6·2	4·9	− 3·9	Calm	Calm	0·0	0·0	0·0	15	0·00

MONTH and DAY, 1851.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Dec. 22	o	o	10, ci.-s, r	10, ci.-s, r
23	o	o	7, ci.-s, h	7, ci.-s, h : 10, ci.-s, h
24	o	o	10, cu.-s, ci.-s	o : 10, cu.-s, ci.-s
25	o	o	10	10
26	o	o	o	v, cu.-s, ci.-s : o
27	o	o	10, ci.-s	10, ci.-s
28	o	o	10, r	10, r
29	o	o	10	10
30	o	o	10	10 : o
31	o	w	10	10

Maxima and Minima Readings of the Barometer.

The following table contains the highest and lowest readings of the Barometer, reduced to 32° Fahrenheit, extracted from the observations taken by the eye. There is good reason to believe that these readings do not differ much from the true maxima and minima, although the times may sometimes be sensibly erroneous.

MAXIMA.			MINIMA.			MAXIMA.			MINIMA.		
Approximate Mean Solar Time, 1851.		Reading.	Approximate Mean Solar Time, 1851.		Reading.	Approximate Mean Solar Time, 1851.		Reading.	Approximate Mean Solar Time, 1851.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	3. 0. 0	29·837	January	1. 9. 0	29·587	May	30. 21. 0	30·371	May	25. 21. 0	29·787
	11. 0. 0	30·020		8. 9. 0	29·312	June	7. 0. 0	29·850	June	3. 9. 0	29·579
	15. 21. 0	29·644		14. 21. 0	28·948		17. 21. 0	30·236		9. 9. 0	29·463
	18. 9. 0	30·004		16. 9. 0	29·397		24. 9. 0	30·134		21. 3. 0	29·567
	23. 9. 0	30·231		21. 0. 0	29·378	July	6. 10. 20	29·942	July	2. 0. 0	29·727
	27. 3. 0	29·854		26. 11. 0	29·599		11. 3. 0	30·008		10. 0. 0	29·561
February	4. 9. 0	29·882		31. 0. 0	29·077		21. 0. 0	29·970		13. 21. 0	29·359
	6. 21. 0	30·062	February	5. 9. 0	29·389	August	4. 21. 0	30·122		23. 21. 0	29·347
	9. 9. 0	30·311		7. 21. 0	29·809		18. 21. 0	30·233	August	14. 9. 0	29·728
	15. 0. 0	30·200		13. 3. 0	29·814		25. 9. 0	30·017		24. 8. 0	29·697
	21. 21. 0	29·912		20. 3. 0	29·611		30. 22. 30	30·084		28. 21. 0	29·549
	26. 9. 0	30·260		24. 3. 0	29·675	September	15. 21. 0	30·466	September	4. 3. 0	29·908
March	8. 9. 0	29·943	March	5. 9. 0	29·527		23. 9. 0	30·008		21. 9. 0	29·891
	11. 0. 0	29·863		9. 21. 0	29·462	October	11. 22. 30	30·164	October	1. 9. 0	28·918
	24. 21. 0	29·656		22. 22. 30	28·839		24. 21. 0	30·286		15. 9. 0	29·206
April	1. 0. 0	30·032		26. 0. 0	29·296	November	4. 21. 0	29·914		29. 9. 0	29·171
	18. 21. 0	29·919	April	9. 0. 0	29·693		12. 21. 9	30·335	November	9. 21. 0	29·532
	25. 9. 0	29·754		22. 0. 0	29·273		22. 9. 0	30·041		19. 9. 0	29·607
May	6. 21. 0	29·748		27. 7. 0	29·427	December	2. 21. 0	30·191		24. 3. 0	29·349
	13. 21. 0	30·217	May	10. 3. 0	29·501		11. 21. 0	30·403	December	7. 21. 0	29·836
	23. 21. 0	30·227		19. 0. 0	29·742		26. 9. 0	30·449		22. 0. 0	29·433

READINGS OF THERMOMETERS SUNK IN THE GROUND.

(I.)—Reading of a Thermometer whose bulb is sunk to the depth of 25·6 feet (24 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month, 1851.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·42	50·81	50·23	49·46	48·88	*S*	48·88	49·43	50·23	51·03	51·60	51·81
2	51·40	*S*	*S*	49·44	48·87	48·74	48·91	49·43	50·24	51·07	*S*	51·83
3	51·40	50·78	50·17	49·43	48·85	48·69	48·88	*S*	50·25	51·07	51·63	51·84
4	51·35	50·75	50·22	49·40	*S*	48·66	48·90	49·48	50·30	51·10	51·61	51·82
5	*S*	50·76	50·14	49·37	48·87	48·66	48·92	49·48	50·31	*S*	51·62	51·78
6	51·34	50·71	50·12	*S*	48·83	48·67	*S*	49·50	50·35	51·14	51·65	51·84
7	51·83	50·79	50·09	49·37	48·82	48·77	48·90	49·54	*S*	51·17	51·67	*S*
8	51·30	50·68	50·14	49·33	48·80	*S*	48·90	49·58	50·40	51·18	51·69	51·84
9	51·27	*S*	*S*	49·27	48·80	48·67	48·92	49·59	50·43	51·10	*S*	51·84
10	51·27	50·64	50·03	49·26	48·81	48·66	48·94	*S*	50·45	51·25	51·70	51·84
11	51·26	50·60	50·00	49·26	*S*	48·67	48·95	49·65	50·48	51·28	51·71	51·78
12	*S*	50·88	49·97	49·24	48·78	48·69	48·97	49·70	50·50	*S*	51·73	51·74
13	51·23	50·60	49·95	*S*	48·75	48·68	*S*	49·70	50·54	51·32	51·71	51·75
14	51·19	50·55	49·91	49·19	48·75	48·70	49·00	49·74	*S*	51·34	51·73	*S*
15	51·19	50·53	49·86	49·17	48·75	*S*	49·04	49·77	50·60	51·34	51·70	51·71
16	51·16	*S*	*S*	49·15	48·74	48·74	49·04	49·80	50·64	51·34	*S*	51·73
17	51·14	50·46	49·85	49·15	48·73	48·68	49·05	*S*	50·65	51·35	51·73	51·73
18	51·10	50·48	49·84	...	*S*	48·71	49·08	49·83	50·68	51·60	51·73	51·68
19	*S*	50·46	49·79	49·14	48·70	48·73	49·08	49·85	50·71	*S*	51·73	51·70
20	51·07	50·45	49·76	*S*	48·70	48·74	*S*	49·90	50·73	51·95	51·75	51·70
21	51·06	50·46	49·64	49·18	48·71	48·75	49·18	49·94	*S*	51·45	51·75	*S*
22	51·04	50·38	49·70	49·06	48·73	*S*	49·22	49·95	50·80	51·47	51·78	51·66
23	51·03	*S*	*S*	49·04	48·70	48·73	49·22	49·96	50·83	51·49	*S*	51·64
24	50·95	50·36	49·65	49·03	48·70	48·75	49·23	*S*	50·85	51·54	51·80	51·62
25	50·95	50·33	49·64	48·98	*S*	48·78	49·21	50·00	50·89	51·53	51·78	Christ. Day.
26	*S*	50·30	49·60	48·97	48·68	48·78	49·24	50·08	50·88	*S*	51·76	51·55
27	50·93	50·27	49·58	*S*	48·73	48·80	*S*	50·05	50·92	51·55	51·82	51·55
28	50·92	50·25	49·55	48·92	48·74	48·81	49·28	50·08	*S*	51·55	51·82	*S*
29	50·90		49·53	48·90	48·74	*S*	49·32	50·07	50·95	51·54	51·82	51·53
30	50·87		*S*	48·81	48·70	48·88	49·34	50·14	51·05	51·58	*S*	51·54
31	50·87		49·47		48·73		49·35	*S*				51·47

The letter *S* denotes that the day was Sunday.

January 7. The reading seems to be too high by 0°·5.

February 12. The reading seems to be somewhat too high; probably it should be 50°·58.

April 18. Good Friday: the instruments were not read.

October 20. The reading seems to be somewhat too high.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean of the readings at noon was found in twelve instances to be greater by 0°·01 than the monthly mean of all the observations; in one instance the excess was 0°·02, and in another it amounted to 0°·03. In all the remaining cases, the means of the noon observations agreed precisely with the means of all the observations.

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12·8 feet (12 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month, 1851.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	49·77	48·14	46·88	46·04	46·62	*S*	50·52	53·17	55·09	55·33	54·43	51·98
2	49·63	*S*	*S*	46·05	46·66	48·25	50·67	53·18	55·10	55·35	*S*	51·90
3	49·60	48·04	46·80	46·05	46·68	48·20	50·70	*S*	55·14	55·33	54·30	51·77
4	49·44	47·94	46·93	46·04	*S*	48·24	50·78	53·28	55·18	55·33	54·25	51·64
5	*S*	47·90	46·78	46·10	46·93	48·33	50·91	53·31	55·10	*S*	54·22	51·57

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12 French feet—*continued.*

Day of the Month. 1851.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
6	49·36	47·92	46·74	*S*	46·92	48·38	*S*	53·34	55·19	55·26	54·23	51·46
7	49·28	47·78	46·68	46·21	46·87	48·48	51·05	53·42	*S*	55·25	54·19	*S*
8	49·15	47·74	46·64	46·30	46·96	*S*	51·15	53·52	55·20	55·20	54·15	51·25
9	49·08	*S*	*S*	46·30	47·04	48·65	51·25	53·53	55·25	55·17	*S*	51·13
10	49·08	47·70	46·70	46·30	47·05	48·73	51·35	*S*	55·30	55·50	54·00	51·03
11	49·03	47·60	46·58	46·23	*S*	48·80	51·47	53·67	55·30	55·19	53·95	50·76
12	*S*	47·70	46·50	46·24	47·10	48·90	51·60	53·78	55·28	*S*	53·88	50·65
13	48·94	47·54	46·53	*S*	47·13	49·03	*S*	53·84	55·32	55·10	53·74	50·54
14	48·87	47·49	46·48	46·27	47·14	49·14	51·80	53·90	*S*	55·06	53·69	*S*
15	48·72	47·40	46·45	46·27	47·18	*S*	51·90	53·98	55·35	54·97	53·55	50·37
16	48·78	*S*	*S*	46·30	47·20	49·38	52·03	54·05	55·38	54·94	*S*	50·30
17	48·75	47·36	46·30	46·31	47·25	49·35	52·05	*S*	55·38	54·89	53·38	50·25
18	48·68	47·36	46·23	...	*S*	49·45	52·15	54·14	55·37	54·90	53·30	50·15
19	*S*	47·39	46·28	46·32	47·34	49·53	52·22	54·23	55·98	*S*	53·19	50·15
20	48·51	47·27	46·05	*S*	47·37	49·63	*S*	54·34	55·40	54·90	53·14	50·08
21	48·58	47·39	46·00	46·36	47·42	49·67	52·48	54·42	*S*	54·83	53·05	*S*
22	48·51	47·17	46·04	46·36	47·50	*S*	52·57	54·48	55·40	54·76	52·95	49·94
23	48·46	*S*	*S*	46·37	47·54	49·80	52·37	54·50	55·40	54·75	*S*	49·84
24	48·38	47·12	45·90	46·36	47·55	49·90	52·61	*S*	55·40	54·78	52·77	49·77
25	48·37	47·06	45·95	46·43	*S*	50·00	52·65	54·64	55·39	54·68	52·65	Christ. Day.
26	*S*	47·03	45·90	46·44	47·68	50·09	52·74	54·72	55·33	*S*	52·50	49·65
27	48·38	46·95	45·88	*S*	47·84	50·19	*S*	54·74	55·35	54·63	52·47	49·58
28	48·36	46·90	45·94	46·48	47·93	50·27	52·85	54·77	*S*	54·55	52·33	*S*
29	48·31		45·95	46·50	47·98	*S*	52·95	54·80	55·34	54·48	52·22	49·50
30	48·28		*S*	46·58	47·90	50·51	53·00	54·87	55·37	54·45	*S*	49·57
31	48·30		45·90		48·10		53·02	*S*				49·40

The letter *S* denotes that the day was Sunday.

April 18. Good Friday.

September 19. The reading is too high; probably it should be 55°·38.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to have the same value in three cases as the monthly mean of all the readings; in five cases it was in excess by 0°·01; in seven cases the excess amounted to 0°·02; in four cases to 0°·03; and in one case to 0°·04.

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6·4 feet (6 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month. 1851.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	46·08	45·28	44·67	45·30	47·80	*S*	53·61	57·85	58·90	57·60	54·80	47·92
2	46·10	*S*	*S*	45·30	47·80	51·38	53·98	57·90	58·90	57·35	*S*	47·76
3	46·10	45·20	44·54	45·41	47·78	51·50	56·11	*S*	58·85	57·20	54·35	47·57
4	46·30	45·12	44·57	45·52	*S*	51·70	56·37	58·10	58·90	57·08	54·10	47·37
5	*S*	45·10	44·40	45·57	47·81	51·97	56·64	58·20	58·80	*S*	53·90	47·26
6	46·60	44·97	44·30	*S*	47·78	52·20	*S*	58·30	58·80	56·78	53·60	47·15
7	46·72	44·92	44·29	45·81	47·80	52·38	56·98	58·30	*S*	56·70	53·28	*S*
8	46·70	44·80	44·27	45·77	47·80	*S*	57·03	58·40	58·75	56·55	52·98	47·00
9	46·58	*S*	*S*	45·72	47·80	52·50	57·08	58·50	58·70	56·40	*S*	47·01
10	46·60	44·74	44·30	45·70	47·86	52·60	57·19	*S*	58·80	56·38	52·44	47·06
11	46·57	44·82	44·22	45·70	*S*	52·78	57·20	58·60	58·75	56·26	52·20	46·98
12	*S*	44·88	44·21	45·67	48·00	52·89	57·30	58·70	58·70	*S*	52·00	47·00
13	46·30	44·73	44·20	*S*	48·14	52·98	*S*	58·80	58·70	56·09	51·80	47·12
14	46·40	44·68	44·19	45·70	48·30	53·08	57·22	58·90	*S*	56·08	51·70	*S*
15	46·48	44·68	44·15	45·78	48·58	*S*	57·25	59·00	58·60	56·00	51·49	47·12
16	46·40	*S*	*S*	45·75	48·70	53·22	57·28	59·10	58·50	55·98	*S*	47·15

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6 French feet—*continued.*

Day of the Month, 1851.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
17	46·56	44·70	43·90	43·80	48·80	53·10	57·30	*S*	58·45	55·47	51·12	47·10
18	46·54	44·70	43·72	...	*S*	53·30	57·40	59·20	58·40	56·00	50·90	47·04
19	*S*	44·60	43·80	43·97	49·19	53·48	57·38	59·30	58·38	*S*	50·60	47·05
20	46·49	44·48	43·77	*S*	49·20	53·58	*S*	59·40	58·40	55·78	50·36	47·00
21	46·44	44·60	43·90	46·29	49·30	53·70	57·55	59·50	*S*	55·58	50·08	*S*
22	46·28	44·40	44·08	46·48	49·48	*S*	57·50	59·60	58·30	55·45	49·78	46·97
23	46·27	*S*	*S*	46·78	49·42	53·90	57·24	59·70	58·20	55·40	*S*	46·97
24	46·20	44·69	44·30	46·98	49·67	54·19	57·34	*S*	58·15	55·40	49·20	47·00
25	46·17	44·70	44·48	47·17	*S*	54·42	57·50	59·60	58·10	55·35	48·98	Christ. Day.
26	*S*	44·68	44·60	47·38	49·90	54·60	57·40	59·28	58·00	*S*	48·75	47·00
27	45·95	44·68	44·70	*S*	50·19	54·79	*S*	59·20	57·95	55·30	48·66	46·98
28	45·78	44·69	44·85	47·62	50·42	54·90	57·50	59·10	*S*	55·20	48·47	*S*
29	45·68		44·94	47·72	50·16	*S*	57·70	59·00	57·90	55·10	48·28	46·80
30	45·50		*S*	47·80	50·68	55·40	57·80	59·00	57·65	55·04	*S*	46·73
31	45·46		45·19		50·92		57·80	*S*				46·48

The letter *S* denotes that the day was Sunday.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be higher than the monthly mean reading, as found from all the observations, by 0°·03.

(IV.)—Reading of a Thermometer whose bulb is sunk to the depth of 3·2 feet (3 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month, 1851.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	43·20	42·30	41·68	44·60	47·50	*S*	61·30	61·10	60·19	56·70	52·40	42·25
2	43·88	*S*	*S*	44·60	47·47	52·08	61·84	61·38	60·23	56·60	*S*	42·02
3	43·50	41·90	41·10	44·60	47·47	55·40	61·90	*S*	60·60	56·30	51·29	41·87
4	44·70	41·60	41·13	44·90	*S*	55·60	61·47	62·30	61·00	56·10	50·45	41·98
5	*S*	41·57	41·08	44·95	46·37	55·68	61·87	62·61	61·10	*S*	49·60	42·05
6	44·78	41·60	41·19	*S*	47·00	55·40	*S*	64·90	61·08	55·95	48·90	42·29
7	44·38	43·70	41·40	44·73	47·00	55·20	61·34	63·00	*S*	55·77	48·58	*S*
8	44·00	41·60	41·40	44·30	47·10	*S*	61·28	63·17	60·70	55·55	48·40	43·42
9	43·90	*S*	*S*	44·20	47·50	55·60	61·30	63·20	60·60	55·30	*S*	43·78
10	43·70	42·05	41·40	44·20	48·00	55·89	61·04	*S*	60·48	55·10	48·28	44·02
11	43·38	42·08	41·47	44·19	*S*	55·80	60·60	63·20	60·18	55·35	48·20	44·48
12	*S*	41·68	41·20	44·29	49·21	55·38	60·28	63·28	59·88	*S*	48·19	44·60
13	44·27	41·60	41·32	*S*	49·74	55·39	*S*	63·30	59·68	55·90	47·95	44·20
14	44·50	41·70	41·43	44·38	49·90	55·60	60·55	63·66	*S*	56·19	47·80	*S*
15	44·67	41·67	41·50	44·50	49·90	*S*	60·67	63·67	59·28	56·20	47·60	43·90
16	44·48	*S*	*S*	44·60	49·98	55·88	60·68	63·69	59·27	56·00	*S*	43·80
17	44·42	41·30	41·45	44·90	50·10	55·85	60·57	*S*	59·19	55·38	46·19	43·70
18	44·48	41·10	41·40	...	*S*	55·95	60·38	63·50	59·20	54·67	45·58	43·70
19	*S*	41·20	41·75	46·12	50·66	56·08	60·00	63·30	59·25	*S*	44·90	43·70
20	43·90	41·87	42·20	*S*	50·69	56·48	*S*	63·08	59·10	54·25	44·39	43·80
21	43·67	41·20	42·80	47·19	50·67	57·24	59·90	63·00	*S*	54·55	43·95	*S*
22	45·80	42·57	43·10	47·70	50·90	*S*	60·02	63·19	58·90	54·98	43·68	44·55
23	43·70	*S*	*S*	48·18	51·20	58·30	60·12	63·68	58·88	54·98	*S*	44·68
24	43·17	42·22	43·60	47·70	51·60	58·20	60·22	*S*	58·78	55·02	43·55	44·58
25	42·67	42·12	43·70	48·45	*S*	58·10	60·20	63·08	58·77	54·90	43·80	Christ. Day
26	*S*	42·28	43·94	48·69	52·40	58·30	60·19	62·70	58·60	*S*	43·85	43·90
27	41·97	42·19	44·12	*S*	52·73	58·90	*S*	62·29	58·28	54·60	43·20	43·50
28	41·80	42·00	44·19	48·30	52·85	59·59	60·19	61·95	*S*	54·38	42·98	*S*
29	41·90		44·50	48·00	53·18	*S*	60·38	60·48	57·89	53·98	42·82	42·50
30	42·30		*S*	47·72	53·80	60·91	60·60	61·00	57·00	53·53	*S*	42·53
31	42·61		44·70		54·18		60·77	*S*				42·30

The letter *S* denotes that the day was Sunday.

January 22. The reading seems to be too high by 2°.
February 7. The reading seems to be too high by 2°.
April 18. Good Friday.
June 2. The reading seems to be 2° or 3° too low.
August 6. The reading seems to be too high.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean reading at noon, in the months from April to September, was found to be 0°·08 higher than the mean for the same months from all the observations, and in the remaining months the excess was 0°·03.

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of one inch below the surface of the soil, within the box which covers the tops of the deep-sunk Thermometers, at Noon on every Day, except Sundays.

Day of the Month, 1851.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·0	41·0	42·0	47·0	49·0	*S*	68·0	67·5	64·0	53·0	48·0	35·5
2	50·6	*S*	*S*	48·0	50·0	62·5	70·1	67·5	65·0	55·0	*S*	39·5
3	46·0	39·0	39·0	48·0	48·0	63·0	64·5	*S*	67·0	53·0	43·0	40·0
4	45·7	44·0	42·0	48·0	*S*	57·0	62·0	69·0	64·0	58·0	41·0	37·5
5	*S*	44·0	43·0	45·0	45·5	59·0	62·5	63·0	63·0	*S*	38·0	44·0
6	40·0	43·0	40·0	*S*	48·0	59·0	*S*	65·0	63·0	54·8	45·0	46·0
7	43·0	41·0	41·0	43·0	50·0	60·0	66·0	66·0	*S*	56·0	45·0	*S*
8	43·5	44·0	43·0	46·0	51·0	*S*	66·0	70·0	61·0	54·0	45·5	48·5
9	41·4	*S*	*S*	44·0	57·0	61·0	63·0	67·0	61·0	51·8	*S*	47·0
10	43·0	43·5	42·0	46·0	58·0	58·0	62·6	*S*	60·5	59·8	46·0	50·5
11	48·0	41·0	41·0	46·0	*S*	58·0	59·0	67·0	59·0	58·0	44·5	46·0
12	*S*	41·0	42·0	46·0	56·0	55·0	65·5	70·0	57·0	*S*	45·8	38·0
13	47·0	43·0	43·0	*S*	54·0	61·0	*S*	71·0	59·0	59·0	43·0	42·0
14	46·0	43·0	43·0	45·0	52·0	60·0	64·0	68·5	*S*	59·8	45·0	*S*
15	46·0	40·0	41·0	46·0	58·0	*S*	63·5	69·0	60·5	57·0	39·0	40·0
16	45·0	*S*	*S*	48·0	55·0	60·0	63·0	68·0	60·0	51·0	*S*	42·0
17	47·0	38·0	43·0	53·0	53·0	59·0	63·0	*S*	61·0	49·0	36·0	44·5
18	42·0	46·0	44·3	...	*S*	59·0	61·0	64·0	60·0	52·0	38·0	39·4
19	*S*	47·7	45·0	53·0	54·0	64·8	61·0	63·0	60·0	*S*	34·8	46·0
20	43·0	46·6	48·0	*S*	57·0	66·0	*S*	66·0	61·0	59·4	38·0	48·0
21	47·5	47·7	48·0	54·8	55·0	68·0	65·0	68·5	*S*	58·0	38·8	*S*
22	42·8	41·8	47·0	53·0	58·0	*S*	64·5	64·5	60·0	55·5	43·0	47·0
23	42·0	*S*	*S*	53·0	58·0	60·0	63·0	64·0	58·0	55·5	*S*	43·0
24	38·0	44·5	46·0	53·0	58·0	61·0	61·0	*S*	62·0	58·5	43·0	42·0
25	38·0	43·0	46·4	52·0	*S*	65·5	63·0	63·0	61·0	54·0	39·0	Christ. Day.
26	*S*	43·0	46·0	51·0	58·0	67·0	62·0	62·0	50·0	*S*	37·0	38·0
27	42·0	40·0	46·4	*S*	57·0	70·0	*S*	63·0	54·0	53·5	38·5	36·5
28	43·0	39·0	48·0	48·0	58·0	71·0	64·0	61·0	*S*	51·5	38·0	*S*
29	48·0		49·0	48·0	59·0	*S*	66·0	56·0	53·0	48·0	36·5	39·0
30	42·0		*S*	48·0	63·0	69·0	66·0	58·5	56·0	48·0	*S*	40·5
31	41·0		46·0		61·0		63·0	*S*				38·0

The letter *S* denotes that the day was Sunday.

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers, whose bulb is placed on a level with their scales, at Noon on every day, except Sundays.

Day of the Month, 1851.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	53·0	40·0	43·0	52·0	53·0	*S*	73·0	72·0	73·0	58·0	51·0	33·0
2	52·0	*S*	*S*	51·0	56·0	71·0	80·5	73·0	69·0	56·5	*S*	41·0
3	48·0	41·7	38·0	49·5	49·0	70·0	66·0	*S*	72·0	60·0	44·0	39·5
4	45·0	40·0	48·0	49·8	*S*	56·0	65·0	75·5	60·9	62·0	39·0	36·0
5	*S*	48·0	45·5	48·0	48·5	59·5	67·5	72·0	65·5	*S*	39·0	47·5
6	41·0	44·0	43·0	*S*	51·0	64·0	*S*	65·8	66·0	58·0	46·0	47·5
7	45·0	43·0	45·5	45·0	54·6	64·0	73·0	71·0	*S*	59·0	46·0	*S*
8	48·0	46·8	46·0	51·0	56·0	*S*	68·8	78·0	60·5	58·0	48·0	42·0

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers—*continued*.

Day of the Month, 1851.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
9	42·0	*S*	*S*	43·0	61·0	58·0	61·5	72·0	66·5	54·0	*S*	51·5
10	46·0	44·0	39·0	47·0	57·0	54·0	66·0	*S*	69·0	65·0	48·0	52·0
11	48·8	44·8	45·0	48·0	*S*	61·0	65·0	72·0	64·0	65·8	48·0	47·0
12	*S*	43·0	43·4	48·0	59·8	61·0	73·0	78·8	63·0	*S*	48·0	54·0
13	49·0	42·0	48·0	*S*	55·0	64·0	*S*	74·0	66·0	63·8	41·0	41·0
14	45·5	44·0	48·0	48·0	56·0	66·0	68·0	73·0	*S*	63·0	44·0	*S*
15	48·0	41·0	39·0	49·0	63·0	*S*	68·0	75·0	65·0	55·8	36·5	39·0
16	47·8	*S*	*S*	51·0	61·0	65·0	64·0	76·0	63·0	53·8	*S*	42·0
17	48·0	41·0	45·0	58·0	59·0	63·0	64·8	*S*	66·0	51·0	35·0	45·0
18	43·0	51·0	47·0	...	*S*	64·0	67·0	66·0	64·0	52·0	39·4	50·0
19	*S*	51·0	48·0	59·8	57·0	75·0	62·5	68·0	65·5	*S*	34·5	50·0
20	41·7	50·0	53·0	*S*	58·0	75·0	*S*	75·0	65·0	65·0	41·0	50·5
21	47·8	51·0	54·0	59·0	59·0	82·0	73·0	77·0	*S*	59·8	41·5	*S*
22	44·0	44·4	48·0	54·0	66·8	*S*	73·9	77·0	65·0	54·0	44·0	49·0
23	44·5	*S*	*S*	60·0	61·0	64·5	63·0	71·0	66·0	56·8	*S*	41·0
24	33·6	49·0	49·0	59·8	65·0	69·0	58·0	*S*	66·0	56·5	44·0	42·0
25	39·0	45·0	50·0	51·0	*S*	74·0	66·0	68·0	64·0	54·8	40·8	Christ. Day.
26	*S*	44·0	49·7	56·0	59·0	78·8	66·0	63·5	54·0	*S*	34·0	39·0
27	45·8	43·0	49·0	*S*	61·0	84·4	*S*	65·0	57·0	55·8	37·5	53·0
28	47·0	30·4	53·0	47·0	69·0	82·5	67·0	64·0	*S*	53·0	36·5	*S*
29	51·0		53·0	50·0	70·0	*S*	73·0	53·5	58·0	45.8	36·5	37·8
30	43·0		*S*	52·4	69·5	79·0	73·0	59·8	57·0	48·0	*S*	39·5
31	41·0		48·0		66·0		64·7	*S*				36·0

The letter *S* denotes that the day was Sunday.

ABSTRACT OF THE CHANGES OF THE DIRECTION OF THE WIND, AS DERIVED FROM OSLER'S ANEMOMETER.

By *direct* motion, in the following statements, is meant that the change of the direction of the wind was in the order N., E., S., W., N. &c.; by *retrograde* is meant in the order N., W., S., E., N., &c.

		d	h	
1850.	Dec.	31.	12.	The direction of the wind was S.W.
1851.	Jan.	31.	12.	,, ,, E., which implies a direct motion of 225°.
	Jan.	3.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of January was 585°.

		d	h	
1851.	Jan.	31.	12.	The direction of the wind was E.
	Feb.	28.	12.	,, ,, W., which implies apparent retrograde motion of 180°.
	Feb.	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Feb.	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Feb.	14.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of February was 900°.

		d	h	
1851.	Feb.	28.	12.	The direction of the wind was W.
	March	31.	12.	,, ,, W., which implies no change.
	March	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	11.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	14.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	March	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of March was 1080°.

		d	h	
1851.	March	31.	12.	The direction of the wind was W.
	April	30.	12.	,, ,, W.N.W., which implies a direct motion of 22½°.
	April	1.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	16.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	19.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	20.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	21.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

CHANGES IN THE DIRECTION OF THE WIND—*continued.*

1851. April 29. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of April was 742½°.

1851. April 30. 12. The direction of the wind was W.N.W.
May 31. 12. ,, ,, E., which implies apparent direct motion of 157½°.
May 3. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
May 15. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
May 24. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
May 27. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
May 28. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of May was 1957½°.

1851. May 31. 12. The direction of the wind was E.
June 30. 12. ,, ,, E.S.E., which implies apparent direct motion of 22½°.
June 27. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Therefore the whole excess of retrograde motion in the month of June was 337½°.

1851. June 30. 12. The direction of the wind was E.S.E.
July 31. 12. ,, ,, S.W., which implies apparent direct motion of 112½°.
July 1. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
July 8. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of July was 832½°.

1851. July 31. 12. The direction of the wind was S.W.
August 31. 12. ,, ,, W.N.W., which implies apparent direct motion of 67½°.
August 12. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
August 19. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
August 27. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Therefore the whole excess of direct motion in the month of August was 427½°.

1851. August 31. 12. The direction of the wind was W.N.W.
Sep. 30. 12. ,, ,, S.W., which implies apparent direct motion of 292½°.
Sep. 12. 2. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Sep. 12. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Sep. 22. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of September was 652½°.

1851. Sep. 30. 12. The direction of the wind was S.W.
Oct. 31. 12. ,, ,, S.W., which implies a retrograde motion of 360°.
Sep. 30. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Oct. 19. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Therefore the whole excess of retrograde motion in the month of October was 360°.

1851. Oct. 31. 12. The direction of the wind was S.W.
Nov. 30. 12. ,, ,, N.N.E., which implies a retrograde motion of 202½°.
The trace was not shifted throughout the month, therefore the excess of retrograde motion in the month of November was 202½°.

1851. Nov. 30. 12. The direction of the wind was N.N.E.
Dec. 31. 12. ,, ,, W., which implies apparent direct motion of 247½°.
Nov. 30. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Dec. 15. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Dec. 22. 2. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Dec. 24. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Dec. 30. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of December was 607½°.

The whole excess of direct motion to the end of the year was 6885°. = 19R · 1

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1851.

1851, Month.	Monthly Amount of Rain collected in the Gauge. On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.	Cylinder partly sunk in the Ground at the Royal Naval Schools.
	in.	in.	in.	in.
January	2·4	2·4	2·7	2·8
February	0·9	0·9	1·3	1·0
March	3·7	3·6	4·1	4·1
April	1·8	2·3	2·3	2·0
May	0·6	0·8	0·8	0·9
June	1·3	1·3	1·8	1·2
July	3·3	4·0	4·2	4·0
August	2·4	2·3	2·6	2·4
September	0·4	0·4	0·5	0·4
October	1·7	1·8	2·2	1·7
November	0·5	0·6	0·6	0·6
December	0·5	0·5	0·6	0·6
Sums	19·5	20·9	23·7	21·7

On April 18, the reading of Crosley's gauge had increased $0^{in}\cdot6$ only from the beginning of the month, during which period rain to the depth of $1^{in}\cdot5$ had fallen. On April 19, the train of wheels was examined, cleaned, and oiled; and on April 20, the fall of rain, as shewn in the cylinder gauge placed in the vicinity of Crosley's, since April 1, being $2^{in}\cdot2$, the reading of Crosley's was set to the reading for April 1, increased by this amount: after this the gauge worked well to the end of the year, shewing, however, uniformly a fall about one-tenth smaller than the actual fall as deduced from the cylindrical gauge.

The gauges at the Royal Observatory are read at 9^h P.M., and the monthly records for the Royal Observatory terminate at 9^h P.M., on the last day of every month. The gauge at the Royal Naval Schools is read at noon on the last day of every month, and the monthly record for the Royal Naval Schools terminates at noon on the last day of every month. The results at the two places are not strictly comparable in those instances in which rain has fallen between the hours of noon and 9^h P.M. on the last day of the month.

At the Royal Naval Schools the reading was not taken for September; but, at the end of October, the amount accumulated in the two months was found to be $2^{in}\cdot1$. The monthly falls at the Royal Observatory were $0^{in}\cdot5$ for September and $2^{in}\cdot2$ for October; and the number 2·1, when divided in proportion to these falls, gives $0^{in}\cdot4$ for September, and $1^{in}\cdot7$ for October, which quantities are inserted in the table above.

Greenwich Mean Solar Time, or Limits of Time, 1851.	Sign of Electricity, as shewn by Dry Pile Apparatus.	READINGS OF ELECTROMETERS. Single Gold Leaf of Dry Pile Apparatus.	Double Gold Leaf.	Volta (1).	Volta (2).	Henley.	Time of Recovery after Discharge.	BONALLS' SPARK-MEASURER. Opening of Spark-measurer, or Length of Spark.	Corresponding Frequency.	GALVANOMETER. The Head of the Needle towards A.	The Head of the Needle towards B.
d h m to d h m						°		in.		°	°
March 29. 0. 43. 0 to 29. 0. 45	Neg.	B. R.	B. R.	B. R.	B. R.	40	Instantly	0·03	Abundant	30	..
April 29. 23. 10. 0	Pos.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·20	2 in 1	..	..
23. 13. 0	Pos.	B. R.	B. R.	B. R.	B. R.	45	Instantly	..	...	..	10
23. 14. 0	0	B. R.	B. R.	B. R.	B. R.	20 to 30	Instantly	0·01	None	..	..
23. 15. 0	Pos.	B. R.	B. R.	B. R.	B. R.	6	Instantly	..	...	..	..
23. 15. 30	0	B. R.	B. R.	B. R.	B. R.	30	Instantly	0·01	1 in 1	..	3
23. 16. 0	Neg.	B. R.	B. R.	B. R.	B. R.	..	Instantly	..	...	5	..
23. 19. 0	Neg.	B. R.	B. R.	B. R.	B. R.	25	Instantly	0·01	3 in 2	5	..
23. 20. 0	Neg.	B. R.	B. R.	B. R.	B. R.	20	Instantly	0·01	...	5	..
23. 23 0	0	0	0	0	0	..	..	..	...	..	..
23 23. 5	Pos.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·05	...	..	1
23. 38. 0	Neg.	0	0	0	0	..	..	..	...	..	..
April 30. 1. 13. 0	0	0	0	0	0	..	..	..	...	..	..
1. 19. 0	Pos.	B. R.	B. R.	B. R.	B. R.	45	Instantly	0·25	...	..	10
1. 20. 0	0	0	0	0	0	..	..	..	...	..	..
1. 20 30	0	B. R.	B. R.	B. R.	B. R.	45	Instantly	0·02	1 in 1	..	..
1. 22. 0	Pos.	B. R.	B. R.	B. R.	B. R.	..	Instantly	0·02	3 in 2	..	10
1. 23. 30	Pos.	B. R.	B. R.	B. R.	B. R.	..	Instantly	0·02	5 in 2	..	..
1. 24. 0	0	B. R.	B. R.	B. R.	B. R.	40	Instantly	0·02	None	..	..
1. 27. 0	0	B. R.	B. R.	B. R.	B. R.	3	Instantly	..	...	..	..
1. 32. 50	0	0	0	0	0	..	..	..	...	..	..
1. 32. 55	Pos.	B. R.	B. R.	B. R.	B. R.	15	Instantly	0·13	1 in 1	..	5
								0·15	3 in 2	..	..
1. 35. 0	0	B. R.	B. R.	B. R.	B. R.	45	Instantly	0·02	None	..	..
1. 43. 0	Neg.	B. R.	B. R.	B. R.	B. R.	40	Instantly	0·02	...	10	..
1. 45. 0	Neg.	B. R.	B. R.	B. R.	B. R.	45	Instantly	0·02	In quick succession	..	..
Aug. 12. 23. 3. 0	Neg.	B. R.	B. R.	B. R.	B. R.	40	Instantly	0·02	2 in 1	6	..
23 5. 0	Neg.	B. R.	B. R.	B. R.	B. R.	40	Instantly	0·13	1 in 1	3	..
23. 7. 0	Pos.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·08	1 in 2	..	2
23. 9. 0	Pos.	B. R.	B. R.	B. R.	B. R.	20	Instantly	0·10	1 in 1	..	3
23. 11. 0	Pos.	B. R.	B. R.	B. R.	B. R.	23	Instantly	0·10	2 in 1	..	2
23. 15. 0	Neg.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·07	1 in 1	2	..
23. 30. 0	Neg.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·07	1 in 1	..	..
23. 38. 0	Neg.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·05	1 in 3	..	..
23. 45. 0	Neg.	0	0	0	0	..	..	..	...	..	..

The letters B. R. denote that the gold leaf or straws have been deflected from the vertical *beyond the range* up to which confidence can be placed in their indications. The greatest inclination considered trustworthy, for all the electrometers except Henley's, is about 20° from the vertical.

WIND.		REMARKS.
From Osler's Anemometer.		
Direction.	Pressure in lbs. per square foot.	
	from lbs. to lbs.	
W	0 to 6	A sudden exhibition of electricity accompanied with sudden heavy rain, the wind blowing strongly.
W	..	A considerable darkness, particularly in W.
W	..	Rain in large drops.
W	..	
W	..	Squall of wind and rain.
W	..	Heavy rain.
W	..	Frozen rain, or pieces of ice, with hail and rain falling.
W	..	Lighter near the horizon in W.
W	..	Brighter, and rain less heavy.
W	..	No rain.
W	..	
W	..	Clear sky; the Sun shining brightly.
W by N	..	Distant thunder heard in N.W. direction.
W by N	..	
WNW	..	A dark mass of cloud rising.
WNW	..	
WNW	..	
WNW	..	Dark cloud.
WNW	..	North horizon bright.
WNW	..	
....	..	Lightning, and a spark seen.
WNW	..	Loud thunder heard.
WNW	..	
W by N	..	Loud thunder heard in W. and S. W.
W by N	2 to 4	
Calm	..	Sky overcast; cirro-stratus and scud: heavy rain began to fall.
Calm	..	
Calm	..	
Calm	..	Heavy rain still falling.
Calm	..	Still overcast, and heavy rain.
Calm	..	Heavy rain continues falling.
Calm	..	Sky overcast: heavy rain.
Calm	..	Rain less heavy.
Calm	..	Rain still continues.

RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1852.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1852.)

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

1852.

ROYAL OBSERVATORY, GREENWICH.

INDICATIONS

OF

MAGNETOMETERS.

1852.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory, as it existed in the year 1847, will be found in the Introduction to the Volume of the Magnetical and Meteorological Observations for that year, at page lxxx. Since that time the following alterations have occurred :—

In February 1848, Mr. Lovelace resigned, and was replaced by Mr. John Charles Henderson.

In 1849, the establishment of observers was reduced, with the intention of carrying on the observations and reductions on a more limited scale, and the only assistants retained were Mr. Glaisher the Superintendant, and Mr. Henderson; Mr. Humphreys about this time having resigned. Mr. Downs was still, however, employed as a computer to the establishment.

In 1852, on the occasion of the death of Mr. Ellis, Mr. Henderson was transferred to the Astronomical Department of the Observatory, and his place was filled by Mr. Downs.

No important change has since that time occurred in the establishment; but in general one and sometimes two or more supernumerary assistants are found necessary to assist in the observations and reductions.

For description of the three Magnetometers, the method of observing by the Telescope, and the method of reducing the observations, the reader is referred to the *Greenwich Magnetical and Meteorological Observations* for 1847, Introduction, pages i to xlii; and to corresponding parts of the preceding volumes.

During the year 1852, Telescope-Observations of the Magnetometers have usually been made four times every day, except on Sundays, on which days two observations only have been taken; but, though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite, by which the Declination Magnet is observed, corresponding to the Astronomical Meridian, on January 3, 7, February 8, 18, March 28, April 3, May 14, 15, July 15, August 20, 28, September 2, October 23, 29, November 25, December 7 and 20.

Observations of the angle of torsion of the Horizontal Force Magnetometer were made on January 5. The angle determined was 42°.58′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on January 5 and 6, resulting in the conclusion, that the scale-readings were nearly identical and had nearly the usual value when the reading of the torsion-circle was 144° (marked end West); and 230° (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) is 144°.

The number used for the variation of horizontal force corresponding to a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·002056.

The correction for temperature is $0{\cdot}0000809\ (t-32) + 0{\cdot}000000762\ (t-32)^2$, where t is the temperature in degrees of Fahrenheit's scale. This is *not* applied to any of the results of observation.

Observations of the times of vibration of the Vertical Force Magnetometer in a vertical plane have usually been made two, three, or four times a week. The adopted time of vibration till April 13 was $20^s{\cdot}42$; from April 14 to May 31, $22^s{\cdot}7$; from June 1 to November 4, $21^s{\cdot}45$; and from November 4 to the end of the year, $20^s{\cdot}00$.

Observations for the time of vibration in a horizontal plane were made in 1848, July, and the time was found to be $24^s{\cdot}0164$ from 7000 vibrations. The values of the disturbing force, in terms of the whole vertical force, corresponding to one

division of the scale, are inferred to be 0·000856 till April 13; 0·000693 from April 14 to May 31; 0·000798 from June 1 to November 4; and 0·000892 from November 5 to the end of the year; and these numbers are used throughout their respective periods.

The correction for temperature is $0{\cdot}00013845 \times (t-32) + 0{\cdot}000004054 \times (t-32)^2$. This is *not* applied to any of the results of observation.

The methods adopted in the use of the Photographic Apparatus; in the determination of zeros both for time and for magnetic indications; and in the translation into numbers of the indications given by the Photographic Traces, for arbitrary times; are in every respect the same as those described in the Addendum to the Introduction to the *Greenwich Magnetical and Meteorological Observations*, 1847, pages lxxxiii to xc.

It is proper, however, to mention that, in measuring the ordinates of the Vertical Force Curves, the same difficulty that is mentioned in the three preceding volumes has still occasionally been felt. Apparently without cause, the curve is dislocated; one part being raised above or depressed below the contiguous part, in the direction of the ordinate, usually by small quantities, but, at times, by a considerable quantity. In all cases the displacement is accompanied by vibration, the original position being at the extremity of the arc of vibration, and the new position being at its center; showing that there has been no want of delicacy in the movement, and that the change is precisely the same as would be caused by the quiet application of a small weight upon one end of the magnet.

In general the ordinates of the Photographic Curves have been measured so frequently, including all maxima and minima, that a reader, laying down a succession of points by means of the given times as abscissæ, and the given measures of force as ordinates, connecting these points by straight lines, and attending to the symbols as explained in the foot-notes, will very nearly reproduce the original curves.

At times when the Vertical Force trace is dislocated, two ordinates have been taken for the same abscissa; these are connected by a brace, and the difference of the numbers included by the brace indicates the amount of the disturbance.

Göttingen Mean Solar Time.	Western Declination.
Jan. 1	
h m	° ′ ″
1. 0	22. 23. 55
2. 20	23. 30
2. 28	22. 15
4. 0	21. 10
8. 42	21. 0
9. 54	6. 15
9. 59	8. 25
10. 6	7. 30
	***
14. 2	22. 0
14. 40	20. 10
17. 0	22. 20
17. 45	19. 0
21. 50	19. 0
23. 30	22. 20
Jan. 2	
1. 0	22. 22. 55
7. 0	19. 30
10. 46	17. 35
13. 14	19. 45
13. 40	18. 10
17. 30	19. 25
21. 30	18. 15
23. 58	27. 0
Jan. 3	
1. 30	22. 26. 20
4. 0	24. 35
5. 15	26. 40
6. 10	24. 15
7. 30	25. 30
9. 38	22. 50
9. 52	23. 50
12. 30	20. 25
12. 50	22. 30
13. 24	17. 0
13. 53	16. 0
14. 36	21. 45
15. 20	18. 35
16. 30	23. 25
17. 40	20. 35
18. 32	23. 50
19. 14	23. 35
19. 20	25. 0
19. 27	23. 0
20. 3	24. 0
20. 23	21. 35
20. 51	23. 0
	***
22. 50	23. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 1	
h m	
0. 15	·1083
2. 30	·1072
8. 0	·1082
9. 0	·1067
9 20:	·1057
10. 0	·1067
10. 6	·1073
10. 30	·1057
12. 0	·1073
14. 7	·1083
14. 50:	·1079
21. 10	·1091
23. 50:	·1074
Jan. 2	
0. 10	·1074
2. 30:	·1082
8. 20:	·1080
11. 30:	·1077
14 10:	·1077
20. 35	·1082
21. 0	·1079
22. 0:	·1081
23. 20	·1071
Jan. 3	
1. 5	·1071
3. 20	·1073
5. 20	·1068
7. 35:	·1075
11. 25	·1077
12. 35	·1065
13. 0:	·1075
14. 20:	·1062
15. 5:	·1070
15. 40	·1065
19. 10	·1080
19. 16	·1072
19. 30:	·1078
	***
21. 35	·1074
22. 25:	·1067
23. 27	·1078

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Jan. 1	
h m	
0. 15	·01209
2. 20	·01140
4. 30	·01019
7. 38:	·00830
10. 16	·00900
12. 0	·00925
16. 2	·01185
23. 30	·01180
Jan. 2	
0. 15	·01170
2. 0	·01059
4. 30	·00760
5. 30	·00619
12. 15	·00585
14. 28	·00564
21. 49	·00554
23. 9	·00607
23. 55	·00602
Jan. 3	
0. 4	·00612
3. 34	·00722
4. 40	·00731
	·00844
5. 10	·00806
5. 40	·00801
7. 48:	·00765
10. 23	·00800
12. 43	·00890
13. 7	·00885
14. 25	·00920
16. 48	·00959
18. 30	·00922
19. 11	·00888
19. 17	·00880
22. 52	·00767
23. 42	·00751

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	44 ·0	48 ·0
3. 40	45 ·5	49 ·0
9. 40	42 ·0	46 ·0
21. 45	40 ·0	45 ·0
1. 40	43 ·0	47 ·8
3. 35	47 ·0	49 ·0
9. 32	46 ·0	49 ·0
21. 40	45 ·0	50 ·0
1. 40	47 ·5	53 ·0
3. 40	49 ·0	53 ·0
9. 40	49 ·0	53 ·0
22. 40	48 ·0	53 ·5

Göttingen Mean Solar Time.	Western Declination.
Jan. 4	
h m	° ′ ″
0. 0	22. 27. 15
	***
0. 8	26. 0
	***
0. 20	28. 45
	***
0. 29	27. 25
	***
1. 33	39. 0
	***
2. 40	29. 35
	***
3. 24	28. 5
	***
4. 2	32. 30
	***
4. 41	32. 0
	***
5. 3	37. 10
	***
5. 28	26. 25
	***
6. 14	33. 25
	***
6. 38	27. 30
	***
7. 28	25. 0
	***
7. 32	27. 30
	***
8. 22	25. 45
	***
8. 52	16. 0
	***
9. 15	26. 55
	***
9. 47	0. 35
	***
10. 9	9. 40
	***
10. 22	6. 0
	***
11. 3	29. 25
	***
11. 32	10. 35
	***
12. 29	24. 25
	***
12. 44	21. 10
	***
13. 6	24. 5
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 4	
h m	
0. 0	·1070
	***
0. 50	·1052
	***
1. 5	·1066
	***
3. 0	·1057
3. 40	·1078
4. 5	·1071
	***
4. 30	·1083
5. 10	·1054
5. 30	·1070
6. 5	·1040
	***
7. 10	·1060
7. 40	·1052
8. 10	·1067
8. 42	·1041
	***
10. 0	·1078
10. 6	·1078
10. 30:	·1054
	***
11. 7	·1096
11. 30:	·1067
11. 45:	·1075
12. 0:	·1060
	***
13. 45	·1077
15. 15:	·1068
	***
18. 15	·1086
	***
19. 0	·1076
	***
22. 0	·1085

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Jan. 4	
h m	
0. 15	·00768
3. 32	·00844
4. 3	·00828
4. 30	·00848
	***
5. 45	·00859
6. 11	·00905
6. 26	·00920
8. 32	·00961
8. 48	·01023
9. 4	·01015
	***
10. 3	·01005
10. 33	·01060
10. 43	·01040
10. 55	·01025
11. 15	·00972
11. 46	·01040
12. 14	·01121
13. 46	·01244
14. 30	·01211
19. 48	·01150
	***
23. 0	·01132
23. 23	·01151
23. 44	·01192

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
7. 40	46 ·0	52 ·0
21. 48	39 ·0	44 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 4								
h m	° ′ ″	h m		h m		h m	°	°
13. 15	22. 23. 5							
	***							
13. 31	26. 30							
	***							
13. 43	25. 25							
	***							
13. 59	27. 30							
	***							
15. 40	30. 0							
	***							
18. 15	26. 0							
	***							
18. 57	28. 15							
	***							
19. 20	31. 15							
	***							
19. 41	25. 30							
	***							
19. 46	29. 20							
	***							
19. 53	26. 5							
	***							
20. 1	28. 5							
	***							
22. 2	23. 20							
	***							
23. 20	29. 0							
	***							
23. 38	22. 20							
	***							
23. 50	31. 10							
	***							
Jan. 5		Jan. 5		Jan. 5				
1. 30	22. 26. 25	1. 30	·1132	1. 2	·01160	1. 49	44 ·0	48 ·0
	***		***	1. 17	·01143	3. 40	48 ·0	53 ·5
1. 45	27. 55	3. 10	·1130	1. 29	·01141	9. 45	48 ·0	51 ·5
	***		***	3. 51	·00801	21. 40	44 ·0	47 ·8
2. 3	26. 0	3. 55:	·1125	4. 10	·00760			
	***		***	4. 32	·00672			
3. 29	27. 0	4. 10	·1135	4. 38	·00674			
	***		***	4. 52	·00709			
4. 22	22. 55	4. 30	·1116	8. 7	·00655			
	***		***	8. 19	·00643			
4. 48	12. 55	4. 50	·1140	8. 34	·00649			
	***		***	8. 54	·00605			
5. 45	23. 20	5. 50	·1131	9. 5	·00609			
	***		***	9. 22	·00582			
6. 30	24. 5	6. 25	·1134	9. 33	·00595			
	***		***	10. 19	·00590			
7. 16	21. 0	7. 0:	·1126	13. 30	·00610			
	***	7. 20	·1138	22. 33	·01090			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 5		Jan. 5		Jan. 5				
h m	° ′ ″	h m		h m		h m	°	°
8. 4	22. 23. 0	7. 53	·1128	23. 10	·01071			
	***		***	23. 13	·01083			
8. 23	10. 30	8. 17	·1130					
	***	8. 45	·1162					
8. 48	27. 50	8. 58	·1136					
	***	9. 10	·1152					
9. 3	20. 0	9. 31	·1120					
	***	9. 48	·1158					
9. 18	26. 30	10. 10	·1140					
	***	10 33	·1143					
9. 33	14. 0	10. 50	·1131					
	***	11. 37	·1130					
9. 59	21. 5	11. 54	·1137					
	***	12. 12	·1132					
10. 15	19. 30	12. 47	·1140					
	***	12. 55	·1137					
10. 45	20. 30	13. 15	·1140					
	***	15. 12	·1138					
11. 1	17. 15	15. 27:	·1144					
	***	15. 40	·1138					
12. 43	26. 10	16. 26	·1146					
	***	17. 35	·1144					
13. 44	24. 0	17. 52	·1151					
	***	19. 0	·1144					
14. 53	27. 10		***					
	***	22. 0	·1140					
15. 18	24. 45							
	***							
15. 57	28. 50							
	***							
18. 15	23. 0							
	***							
19. 0	24. 55							
	***							
21. 18	21. 50							
	***							
22. 46	23. 0							
	***							
23. 28	27. 15							
	***							
23. 40	24. 0							
	***							
Jan. 6		Jan. 6		Jan. 6				
1. 28	22. 29. 5	0. 42	·1017	0. 21	·01040	1. 40	47 ·5	51 ·0
	***	2. 10	·1012	1. 23	·00990	3. 40	49 ·5	53 ·0
2. 30	28. 25	2. 42	·0978	2. 44	·00772	9. 40	50 ·5	54 ·4
	***	3. 5	·1014	3. 5	·00740	21. 40	49. 0	52 ·4
3. 0	16. 40		***					
	***			4. 1	·00790			
		5. 18	·1023		·00871			
3. 58	25. 55	5. 35	1012	6. 44	·00750			
	***	6. 18	1036	8. 38	·00760			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

January 5d. 22h. The adjustment of the Horizontal Force Magnet was altered, so as to make the readings less by about 0 ·012.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 6		Jan. 6		Jan. 6				
h m	° ′ ″	h m		h m		h m	°	°
5. 28	22. 21. 30	6. 40	·1020	8. 53	·00740			
	***		***	12. 24	·00823			
5. 50	14. 25	8. 10	·1013	19. 30	·01098			
	***	8. 34	·1056	22. 43	·01050			
6. 32	20. 35		***		***			
	***	8. 48	·1023					
6. 44	16. 45		***					
	***	9. 55	·1016					
7. 58	23. 0	11. 45	·1026					
	***	12. 54	·1026					
8. 22	10. 30		***					
	***	13. 16	·1034					
8. 44	21. 30	13. 42	·1026					
	***	16. 12	·1018					
9. 10	14. 0		***					
	***	18. 12	·1032					
9. 45	21. 45	23. 45	·1016					
	***	23. 59	·1016					
12. 29	20. 50							
	***							
13. 24	27. 0							
	***							
13. 54	21. 40							
	***							
14 ·30	23. 30							
	***							
15. 24	21. 0							
	***							
16. 45	24. 40							
	***							
17. 50	22. 0							
	***							
18. 26	21. 5							
	***							
22. 12	20. 25							
	***							
23. 57	24. 0							
	***							
Jan. 7		Jan. 7		Jan. 7				
1. 0	22. 25. 30	0. 40	·1012	0. 34	·00867	1. 40	52 ·0	55 ·4
	***		***	1. 31	·00757	3. 40	54 ·0	57 ·0
2. 20	27. 0	4. 20	·1005	2. 20	·00846	9. 40	53 ·0	57 ·0
	***	9. 48	·1018		***	21. 40	46 ·0	50 ·4
3. 31	22. 20	10. 0	·1026	4. 19	·00862			
	***	10. 13	·1022	4. 33	·00960			
6. 39	19. 15		***	9. 22	·01096			
	***	12. 24	·1018	13 57	·01411			
7. 10	22. 0	19. 26	·1038	22. 25	·01283			
	***	23 59	·1027	23. 30	·01298			
9. 50	22. 0							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 7								
h m	° ′ ″	h m		h m		h m	°	°
10. 50	22. 18. 0							
	***							
11. 15	20. 5							
	***							
15. 30	24. 50							
	***							
20. 30	23. 10							
	***							
22. 0	19. 0							
	***							
23. 58	25. 0							
	***							
Jan. 8		Jan. 8		Jan. 8				
1. 0	22. 25. 15	1. 0	·1023	0. 40	·01321	1. 40	47 ·5	52 ·8
	***	2. 31	·1017	2. 40:	·01241	3. 40	50 ·0	55 ·0
5. 50	21. 5	7. 42	·1028	7. 46	·00675	9. 40	49 ·0	54 ·0
	***	8. 40	·1014	11. 44	·00791	21. 40	47 ·5	52 ·5
8. 0	23. 10	10. 48	·1026	18. 0	·00770			
	***	12. 40	·1020	21. 52	·00861			
8. 46	19. 25	13. 12	·1027					
	***	15. 33	·1023					
11. 38	18. 35	20. 42	·1032					
	***		***					
11. 46	22. 40	23. 42	·1024					
	***	23. 45	·1032					
12. 39	15. 50	23. 46	·1018					
	***							
13. 20	20. 0							
	***							
17. 38	22. 15							
	***							
20. 30	23. 25							
	***							
22. 17	19. 10							
	***							
23. 50	23. 25							
	***							
Jan. 9		Jan. 9		Jan. 9				
1. 0	22. 23. 45	0. 2	·1026	1. 40:	·01165	1. 40	49 ·0	53 ·0
	***	0. 5	·1018	4. 41:	·00959	3. 40	50 ·0	54 ·0
3. 30	23. 5	2. 50	·1022	6. 38:	·00935	9. 40	47 ·0	49 ·0
	***		***	10. 27	·01189	21. 40	39 ·0	42 ·5
4. 45	23. 35	3. 56	·1022	14. 2	·01100			
	***	5. 24	·0997	22. 39	·01020			
5. 8	21. 0	6. 12:	·1019					
	***	6. 27	·1013					
6. 0	24. 40		***					
	***	7. 15	·1026					
6. 30	24. 0	8. 14	·1022					
	***		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 9		Jan. 9						
h m	° ′ ″	h m		h m		h m	°	°
6. 46	22. 24. 50	9. 0	·1028					
	***	9. 33	·1022					
7. 20	22. 45	12. 12	·1023					
	***	13 14	·1032					
8. 2	25. 0	13. 30:	·1045					
	***	14. 32	·1036					
9. 8	21. 45	18. 30	·1035					
	***		***					
10. 8	23. 50	19. 30	·1040					
	***	21. 0	·1036					
13. 0	23. 0	21. 30:	·1040					
	***	23. 59	·1019					
13. 20	20 15							
	***							
13. 50	25. 5							
	***							
14. 36	18. 55							
	***							
17. 30	23. 0							
	***							
18. 30	24. 35							
	***							
18. 48	24. 0							
	***							
21. 0	24. 35							
	***							
22. 7	21 35							
	***							
23. 45	26. 0							
	***							
Jan. 10		Jan. 10		Jan. 10				
1. 0	22. 25. 30	0. 15	·1020	3. 3	·00800	1. 40	44 ·0	45 ·5
1. 20	23. 10		***	4. 31	·00500	3. 40	46 ·0	49 ·0
5. 30	21. 35	6. 20	·1028	5 30	·00499	9. 40	44 ·0	48 ·0
	***		***	9. 0	·00445	22. 50	46 ·0	50 ·5
6. 42	23. 10	7. 20	·1012	9. 32	·00471			
	***		***	9. 50	·00450			
7. 26	18. 50	7. 50	·1026	10. 3	·00460			
	***		***	10. 19	·00429			
7. 45	17. 40	8. 10	·1027	13. 48	·00615			
	***	8. 22	·1015	18. 40	·00850			
8. 33	26. 15		***	22. 12	·00651			
	***	8. 40	·1013	23. 55	·00584			
8. 44	24. 0	8. 56	·1022		***			
	***	9. 20	·1010					
9. 5	27. 10	9. 33	·1011					
	***	9. 45	·1022					
9. 25	25. 20	9. 50	·1014					
	***	10. 5	·1046					
9. 43	26. 0	10. 10	·1038					
	***	10. 13	·1047					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 10		Jan. 10						
h m	° ′ ″	h m		h m		h m	°	°
10. 3	22. 13. 45	10. 44	·1012					
	***	11. 0	·1013					
10. 42	21. 35	11. 15	·1020					
	***		***					
11. 2	17. 15	12. 0	·1025					
	***	12. 10	·1025					
12. 15	22. 30		***					
	***	13. 33	·1020					
13. 23	17. 20		***					
	***	14. 30	·1047					
13. 51	20. 0	15. 10	·1024					
	***		***					
14. 41	13. 50	18. 34	·1042					
	***		***					
15. 8	17. 5	21. 3	·1032					
	***		***					
15. 17	16. 0	22. 52	·1030					
	***							
16. 30	22. 30							
	***							
18. 18	21. 25							
	***							
21. 5	20. 10							
	***							
21. 20	22. 0							
	***							
21. 37	19. 10							
	***							
22. 32	21. 0							
	***							
22. 42	24. 0							
	***							
22. 53	22. 43							
	***							
Jan. 11		Jan. 11		Jan. 11				
1. 0	22. 29. 30	0. 0	·1025	2. 40	·00800	10. 0	50 ·0	58 ·0
	***		***	5. 14	·00954	21. 40	50 ·0	52 ·0
1. 15	30. 15	1. 13	·0993		***			
	***		***	10. 7	·00900			
1. 28	27. 30	1. 26	·0997		(†)			
	***		***	11. 10	·00828			
1. 39	30. 00	1. 29	·0993	15. 48	·01323			
	***		***	17. 40	·01302			
1. 47	26. 10	1. 35	·1000					
	***		***					
1. 51	28. 5	1. 42	·0998					
	***		***					
2. 27	24. 40	1. 50	·1013					
	***	1. 54	·1010					
2. 45	27. 30		***					
	***	2. 42	·1024					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 11		Jan. 11						
m	° ′ ″	h m		h m		h m	°	°
3. 8	22. 25. 20	3. 45	·1027					
	***	4. 52	·0998					
4. 5	28. 0		***					
5. 36	21. 55	7. 4	·1021					
6. 10	25. 20		***					
7. 30	18. 40	7. 9	·1018					
7. 54	14. 5		***					
8. 30	20. 20	7. 18	·1020					
8. 42	19. 0		***					
9. 4	21. 30	7. 20	·1016					
10. 12	19. 15		***					
11. 2	20. 35	7. 33	·1024					
11. 36	19. 0	7. 50	·1020					
12. 2	20. 35	8. 3	·1034					
16. 0	22. 0	8. 34	·1020					
16. 36	23. 55		***					
16. 48	23. 0	11. 0	·1019					
17. 2	24. 25	11. 40	·1008					
17. 24	22. 30	11. 50	·1028					
18. 57	21. 0	12. 35	·1023					
20. 15	20. 10	13. 0	·1020					
20. 46	21. 30	15. 20	·1024					
21. 59	19. 10	17. 0	·1020					
23. 46	22. 20	17. 35	·1024					
			***					
		18. 15	·1020					
		20. 15	·1026					
			***					
		23. 40	·1008					
		23. 59	·1004					
Jan. 12		Jan. 12		Jan. 12				
1. 30	22. 25. 30	1. 15	·1003	1. 36	·01155	1. 40	54 ·0	55 ·0
6. 0	22. 30		***	2. 29	·01077	3. 40	56 ·0	58 ·8
7. 50	22. 10	3. 9	·1004	4. 38	·00812	9. 40	56 ·0	58 ·8
8. 32	12. 45	5. 35	·1014	5. 17	·00858	21. 45	50 ·0	56 ·0
8. 59	19. 30		***	5. 41	{ ·00855			
9. 20	15. 5	5. 48	·1013		{ ·00891			
10. 10	21. 30	7. 10	·1013	8 54	·00851			
11. 13	21. 0		***	11. 57	·00800			
11. 37	25. 45	8. 20:	·1003	13. 30	·00842			
11. 56	22. 15		***	22. 16	·01414			
12. 40	24. 10	8. 45	·1013	23. 55	·01400			
13. 28	21. 20	9. 10	·1010					
15. 23	24. 5	9. 30	·1016					
16. 31	24. 40	10. 0	·1006					
19. 26	24. 0	11. 18	·1010					
19. 36	21. 55	11. 26	·1016					
20. 0	24. 0	12. 0	·1019					
20. 8	22. 55	12. 13	·1015					
22. 16	22. 35	12. 23	·1020					
22. 47	20. 50	12. 30	·1019					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 12		Jan. 12						
h m	° ′ ″	h m		h m		h m	°	°
23. 45	22. 24. 30	13. 0:	·1014					
		13. 30	·1016					
		16. 18	·1017					
		18. 50	·1026					
			***					
		19. 26	·1020					
			***					
		19. 42	·1026					
			***					
		20. 0	·1024					
			***					
		22. 5	·1018					
		23. 0	·1005					
			***					
		23. 59	·1000					
Jan. 13		Jan. 13		Jan. 13				
1. 0	22. 23. 25	3. 0:	·0996	0. 58	·01431	1. 40	51 ·8	54 ·0
2. 0	25. 20		***	2. 58	·01436	3. 40	52 ·0	56 ·0
7. 18	21. 30	5. 30	·1006	6. 14	·01237	9. 40	54 ·0	55 ·0
7. 43	18. 30	7. 23	·1011		†	21. 50	52 ·0	54 ·8
8. 3	20. 0	7. 35	·1005	9. 40	·00907*			
8. 40	15. 5	8. 46	·1019	21. 50	·00860*			
10. 11	20. 15		***					
10. 32	18. 0	10. 26	·0996					
12. 10	21. 0	12. 0	·1006					
13. 7	17. 10	12. 30	·1004					
13. 26	18. 30	13. 0	·1013					
13. 44	16. 30	13. 45	·1004					
15. 30	22. 15	20. 50	·1018					
19. 17	22. 35	23. 59	·0995					
22. 10	19. 45							
23. 57	22. 0							
Jan. 14		Jan. 14		Jan. 14				
1. 0	22. 23. 35	1. 0	·0989	1. 40	·00805*	1. 40	55 ·0	58 ·4
3. 30	24. 30	3. 0	·0988	3. 40	·00835*	3. 40	57 ·0	60 ·3
6. 0	21. 35	9. 20	·1009	9. 40	·00788*	9. 40	57 ·0	57 ·0
9. 48	23 35	12. 0	·1008	21. 40	·01266*	21. 40	52 ·2	53 ·0
10. 8	22. 20	19. 30	·1022					
13. 0	24. 25	20. 30	·1024					
15. 15	24. 50	23. 29	·1009					
18. 0	23. 0							
21. 59	20. 35							
23. 45	23. 0							
Jan. 15		Jan. 15		Jan. 15				
1. 0	22. 24. 5	0. 32	·1003	1. 0	·01247	1. 40	55 ·0	55 ·5
9. 0	23. 25	2. 15	·0995	1. 55	·01200	3. 40	56 ·0	58 ·0
9. 26	22. 25	7. 30	·1008	2. 50	·01081	9. 40	57 ·0	61 ·0
21. 22	21. 5	11. 26	·1013	4. 2	·00820	21. 40	54 ·0	59 ·4

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

The time-piece of the Vertical Force Magnet stopped on January 13, and on January 14 was away for repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 15		Jan. 15		Jan. 15		h m	°	°
h m	° ′ ″	h m		h m				
21. 59	22. 18. 55	12. 0	·1010	5. 40	·00860			
23. 45	23. 0	12. 35	·1010	8. 16	·00825			
		12. 45	·1014	9. 59	·00821			
		20. 30	·1018	10. 35	·00813			
		23. 30	·0996	12. 42	·00915			
		23. 59	·0996	14. 8	·00942			
				16. 48	·00940			
				19. 33	·00841			
				20. 33	·00821			
				22. 50	·00868			
				23. 21	·00885			
Jan. 16		Jan. 16		Jan. 16				
1. 0	22. 25. 0	2. 30	·0992	2. 12	·00820	1. 40	57 ·0	59 ·4
6. 20	22. 5	7. 30	·1009	3. 20	·00879	3. 40	59 ·0	61 ·4
9. 30	23. 30	12. 0	·1014	4. 18	·00887	9. 40	57 ·0	60 ·2
13. 47	22. 55	12. 42	·1014	5. 8	·00870	21. 40	51 ·5	55 ·4
18. 0	23. 40	17. 30	·1024	6. 2	·00833			
18. 28	24. 35	19. 0	·1030	7. 54:	·00855			
20. 30	22. 25	23. 30	·1006	18. 32	·01462			
21. 0	19. 25	23. 59	·1005	22. 20	·01430			
23. 45	22. 30			23. 51	·01454			
Jan. 17		Jan. 17		Jan. 17				
1. 0	22. 24. 25	0. 30	·1005	2. 59	·01318	1. 40	54 ·0	57 ·5
2. 48	27. 0	1. 20	·1004	3. 36	·01250	3. 40	56 ·0	58 ·5
6. 0	23. 25	2. 0	·1008	4. 42	·01091	9. 40	53 ·5	58 ·0
8. 8	26. 30	3. 50:	·0999	5. 53:	·00945	22. 40	44 ·0	49 ·0
10. 51	21. 40	4. 25	·1009	9. 0	·00842			
11. 50	23. 0	6. 30	·1007		·01005			
12. 42	21. 25	7. 10	·1000	14. 13	·01415			
13. 8	24. 0	8. 0	·1000	19. 0	·01321			
13. 55	21. 0		***	19. 46	·01341			
18. 0	24. 35	9. 0	·0990	22. 46	·01242			
20. 36	23. 20	9. 50	·1000					
22. 15	23. 5	11. 15	·1011					
23. 45	23. 50	12. 42	·1014					
		12. 55	·1023					
		14. 45	·1024					
		18. 0	·1034					
		22. 50	·1025					
		23. 45	·1027					
Jan. 18		Jan. 18		Jan. 18				
1. 0	22. 23. 5	0. 0	·1027	0. 10	·01260	7. 50	47 ·0	52 ·0
2. 31	26. 10	6. 15	·1028	1. 46	·01311	21. 40	44 ·8	48 ·5
3. 5	23. 25	13. 0	·1030	3. 41	·01280			
9. 0	23. 0	13. 10	·1033	5. 27:	·01181			
12. 28	25. 20	13. 50	·1032	9. 36	·00930			
12. 47	24. 25	14. 10	·1030	13. 46:	·00980			
14. 30	26. 25	14. 19	·1034	16. 51	·01146			
20. 45	23. 0	15. 0	·1030	18. 40	·01270			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 18		Jan. 18		Jan. 18		h m	°	°
h m	° ′ ″	h m		h m				
21. 37	22. 19. 50	17. 0	·1033	18. 42	·01264			
23. 53	23. 55	19. 0	·1034					
		19. 30	·1036					
		21. 30	·1031					
		23. 40	·1014					
		23. 59	·1012					
Jan. 19		Jan. 19		Jan. 19				
1. 17	22. 27. 15	0. 50	·1008	0. 20	·01271	1. 40	47 ·0	51 ·0
5. 36	22. 30	1. 30	·1012	1. 29	·01175	3. 40	50 ·0	53 ·4
6. 8	24. 20	2. 30	·1005	2. 20	·01058	9. 40	51 ·0	55 ·0
	***	3. 45	·1005	3. 54	·00682	21. 40	48 ·0	51 ·0
11. 17	23. 0	4. 30	·1012	4. 16	·00700			
	***	4. 37:	·1030	5. 36	·00790			
11. 22	18. 0	4. 55	·1025	6. 58	·00685			
	***		***		***			
11. 25	19. 2	5. 15	·1024	8. 2	·00646			
	***		***		***			
11. 47	9. 45	7. 55	·1033	8. 10:	·00636			
	***		***		***			
12. 15	14. 0	8. 3	·1044	11. 25	·00710			
	***	8. 12	·1026		***			
12. 45	5. 0		***	11. 45	·00730			
	***	10. 12	·1032		***			
13. 29	21. 6	10. 16	·1022	12. 5	·00747			
	***	10. 18	·1025		***			
13. 47	24. 35		***	12. 15	·00770			
	***	10. 21	·1020		***			
14. 15	22. 40		***	12. 30	·00704			
	***	10. 30	·1023	12. 42	·00661			
14. 33	28. 0		***	13. 10	·00740			
	***	10. 36	·1018	14. 5	·00735			
14. 38	25. 5		***	14. 36	·00761			
	***	10. 40	·1020	14. 41	·00748			
14. 40	27. 50		***	14. 45	·00763			
	***	11. 3	·1000		***			
14. 57	18. 25		***	14. 59	·00730			
	***	11. 57	·0990	15. 5	·00737			
15. 0	20. 10		***	15. 8	·00733			
	***	12. 39	·1016	15. 41	·00700			
15. 50	9. 0	12. 41	·1014	15. 45	·00645			
	***	12. 53	·0966	15. 48	·00670			
16. 24	30. 50		***	16. 12	·00767			
	***	13. 52	·1018	16. 33	·00770			
17. 10	18. 5	14. 0:	·1012		***			
	***	14. 30	·1018	17. 45	·00780			
17. 33	22. 0	14. 32	·1034		***			
	***	14. 40	·1010	18. 8	·00745			
17. 42	16. 50	14. 45	·1022		***			
	***	14. 50	·1022	18. 18	·00754			
17. 44	26. 0	14. 58	·1000		***			
	***	15. 3	·1000	18. 28	·00745			
					***			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Jan. 19	
h m	° ′ ″
17. 45	22. 17. 50
	***
18. 28	41. 45
	***
19. 0	27. 35
	***
19. 9	33. 30
	***
19. 15	28. 5
	***
19. 47	39. 50
	***
21. 0	18. 20
	***
21. 7	20. 15
	***
21. 14	18. 30
	***
23. 22	26. 20
	***
23. 27	24. 20
	***
23 54	27. 30
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 19	
h m	
15. 6	·0984
15. 22	·0998
15. 42	·0955
15. 46	·0986
15. 52	·0968
16 7	·0991
16. 12	·0983
16. 45:	·1015
	***
17. 24	·0999
	***
17. 34	·1018
17. 38	·1005
17. 43	·1025
17. 45	·0994
17. 50	·1023
	**
18. 8	·0970
	***
18. 29	·0988
	***
18. 30	·0972
	***
18. 56	·1064
	***
19. 10	·1057
	***
19. 36	·1006
	***
19. 40	·1017
	***
20. 12	·0984
20. 15	·0995
	***
20. 34	·0980
	***
20. 45	·0987
	***
21. 0	·0970
	***
21. 8	·0980
	***
21. 40	·0970
	***
22. 32	·0978
	***
23. 43	·0962
	***
23. 59	·0962
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Jan. 19	
h m	
18. 40	·00784
	***
19. 47	·00830
	***
22. 40	·00989
	***

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°

Göttingen Mean Solar Time.	Western Declination.
Jan. 20	
h m	° ′ ″
1. 2	22. 30. 0
1. 7	32. 30
1. 11	29. 10
1. 20	37. 30
1. 37	32. 55
1. 40	35 25
1. 54	30. 5
2. 3	33. 45
2. 31	26. 45
2. 57	29. 0
3. 19	26. 0
3 35	31. 25
3 38	29 45
3. 42	30. 0
3. 53	18. 0
4. 1	16. 20
4. 21	27. 0
4. 27	24. 0
4. 42	28. 0
4. 45	27. 0
4. 53	27. 35
5. 10	23. 50
5. 12	25. 0
5. 28	9. 0
5. 44	20. 10
6. 2	15. 0
6. 12	18. 0
6. 23	14. 0
6. 43	22. 10
6. 58	20. 20
7. 30	23. 25
8. 40	17. 20
8. 58	22. 55
9. 16	11. 30
9. 30	24. 25
9. 42	12. 0
9. 56	27. 15
10. 51	14. 0
11. 9	17. 0
11. 19:	13. 5
12 51	20. 25
15. 11	27. 0
17. 3	25. 5
18. 44	31. 30
20. 28	25. 30
20. 40	23 10
20. 58	24. 30
21. 17	20. 0
21. 25	21. 45
22. 3	21. 25
22. 51	23. 30
23. 27	22. 55
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 20	
h m	
0. 0	·0962
	***
1. 40	·0964
	***
2. 0	·0980
	***
3. 24	·0984
	***
3. 45	·0950
	***
4. 6	·0998
	***
4. 18	·0998
	***
5. 28	·0954
	***
5. 42	·0991
6. 0	·0966
6. 37:	·0976
6. 50	·0964
	***
8. 30	·0968
	***
8. 45	·0985
9. 0	·0966
9. 20	·0995
9. 32	·0970
9. 48	·1022
10. 52	·1000
11. 12	·0965
11. 22	·0973
	***
12. 33	·0984
16. 18	·1000
18. 42	·1016
19. 26	·1003
20. 30	·1002
20. 45:	·1010
21. 10	·1002
22. 40:	·0990
23. 0:	·0982
23. 30:	·0978
23. 59	·0986

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Jan. 20	
h m	
1. 0	·00922
	***
1. 28	·00899
1. 40	·00895
2. 57	·00768
4. 4	·00843
	***
5. 10	·00821
5. 24	·00895
5. 31	·00910
9. 2	·00848
9. 10	·00856
9. 33	·00822
9. 46	·00794
11. 10	·00711
11. 18:	·00722
19. 39	·01398
22. 20	·01374

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	51 · 4	54 · 0
3. 40	54 · 0	57 · 0
9. 40	54 · 5	56 · 8
21. 40	45 · 0	48 · 0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
Jan. 20								
h m 23. 55	° ′ ″ 22. 26. 25	h m		m				
Jan. 21		Jan. 21		Jan. 21				
1. 30	22. 27. 35	0. 0	·0986	0. 18	·01421	1. 40 47	·2 52	·8
1. 59	29. 30	1. 10	·0978	3. 26:	·01338	3. 40 51	·0 53	·0
				10 45	·01088	9. 40 51	·5 54	·0
2. 10	27. 10	2. 34	·0976	12. 38	·00984	21. 40 57	·0 51	·0
2 22	28. 5	3. 30	·0985					
2. 40	24. 55	4. 4	·0989	18. 58	·00670			
		5. 36	·0991	20. 15	·00685			
3. 41	27. 0	5. 54	·0986	23. 55	·00798			
6. 13	18. 0	9. 0	·1007					
7. 30	23. 0	10. 45	·1009					
9. 44	20. 30	11. 36:	·1003					
11. 13	18. 55							
11. 35	19. 50	12. 30	·1020					
11. 50	19. 5	12. 48	·1010					
12. 15	21. 45							
12. 39	19. 30	15. 56	·1018					
13. 10	23. 5	16. 50	·1007					
13. 21	22. 0	17. 0	·1010					
13. 31	23. 0							
		18. 20:	·1012					
14. 45	17. 25							
15. 7	20. 35	18. 45	·1002					
15. 38	16. 55							
		20. 30	·1008					
17. 3	24. 35							
17. 16	22. 0	23. 40	·0990					
17. 45	22. 35							
18. 38	27. 15	23. 59	·0990					
22. 20	21. 5							
23. 45	23. 25							
Jan. 22		Jan. 22		Jan. 22				
1. 15	22. 24. 55	1. 0	·0986	0. 30	·00790	1. 40 54	·0 56	·3
1. 28	27. 25	1. 18	·0985	2. 29	·00730	3. 40 55	·5 58	·0
2. 18	25. 20	1. 30	·0997	3. 25	·00801	9. 40 50	·5 54	·5
2. 26	26. 50					21. 40 45	·0 49	·0
2. 51	24. 5	3. 4	·0998	4. 18	·01001			
		3. 35	·0935	5. 8	·00930			
3. 24	34. 55			5. 12	·00945			
3. 40	30. 5	4. 12	·0980	5. 42	·00950			
3. 47	31. 45	4. 17	·0962	6. 14	·00900			
3. 52	30. 0	4. 27	·0974	6. 24	·00995			
3. 59	33. 0	4. 37	·0974	8. 16	·00955			
4. 2	31. 45	4. 40	·0994	8. 40	·00995			
4. 10	35. 5	4. 50	·1006	10. 38:	·01062			
4. 16	31. 0	4. 57	·0975	14. 13	·01389			
4. 21	32. 40	5. 0	·0985	17. 40	·01340			
4. 31	27. 30	5. 10	·0958	21. 38	·01300			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
Jan. 22		Jan. 22		Jan. 22				
4. 43	° ′ ″ 22. 37. 45	5. 14	·0966	23. 55	·01345			
4. 52	24. 30	5. 18	·0957					
5 0	29. 25	5. 35	·0958					
5. 4	24. 10							
5. 8	25. 35	5. 48	·0972					
5. 11	23. 40	6. 2	·0960					
5. 26	26. 0	6. 57	·0972					
5. 31	24. 20							
5 50	32. 0	7. 5	·0966					
6. 1	27. 35							
		7. 15	·0976					
6. 16	29. 0							
7. 6	24. 50	8. 3	·0965					
7. 10	25. 30							
7. 20	21. 20	8. 40	·0978					
7. 58	25. 0	8. 57	·0970					
8. 33	13. 20							
9. 0	23. 25	9. 50	·0986					
9. 58	22. 40	10. 0	·0992					
10. 30	24. 0							
13. 30	23. 35	12. 30	·0993					
15. 0	27. 0							
18. 30	24. 40	15. 15	·1006					
21. 57	20. 40	16. 30	·1007					
23. 16	22. 20	17. 8	·1014					
23. 50	25. 0	18. 42	·1013					
		19. 0	·1010					
		19. 20	·1014					
		20. 24	·1014					
		21. 30	·1008					
		23. 45	·0998					
		23. 59	·0992					
Jan. 23		Jan. 23		Jan. 23				
1. 0	22. 28. 25	0. 5	·0986	0. 19	·01349	1. 40 48	·0 51	·0
		0. 30	·0990	1. 18	·01310	3. 40 49	·0 53	·5
1. 15	31. 10	0. 40	·0992	3. 50	·01082	9. 40 49	·5 53	·5
1. 21	30. 5	1. 5:	·0974	4 12	·01111	21. 40 43	·5 47	·5
1. 28	33. 0			4. 54	·00882			
1. 35	31. 30	1. 27	·0978	5. 55	·00910			
1. 49	32. 40	1. 33	·0971	6. 18	·00814			
2. 11	29. 35	1. 55	·0982	6. 40	·00830			
2. 32	32. 50	2. 3:	·0970					
2. 37	31. 35			7. 54	·00750			
2. 43	34. 10	2. 52	·0986	8. 23	·00730			
2. 48	33. 0			8. 42	·00932			
2. 59	35. 15	3. 30	·0974	9. 5	·00890			
3. 27	30. 0							
3. 31	30. 35	3. 54	·0974	9. 37	·00845			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 23		Jan. 23		Jan. 23				
h m	° ′ ″	h m		h m		h m	°	°
3. 38	22. 26. 50	4. 2	·0986	16. 0	·01310			
3. 43	28. 20		***	18. 30	·01295			
	***	4. 10	·0978	22. 10	·01282			
4. 0	26. 0		***	23. 50	·01317			
	***	4. 16	·1003					
4. 12	31. 35		***					
4. 20	27. 5	4. 33	·1004					
4. 24	31. 25		***					
4 38	16. 0	4. 38	·0972					
4. 42	24. 0		***					
4. 48	18. 0	4. 45	·0990					
	***		***					
5. 15	29. 35	4. 52	·0982					
5. 27	27. 0	5. 3	·0990					
3. 39	28. 45	5. 15	·0976					
6. 0	10. 0		***					
6. 4	16. 15	5. 26	·0985					
6. 9	14. 30		***					
6. 27	33. 0	5. 35	·0977					
6. 39	18. 0	5. 54	·0985					
6. 53	19. 35	5. 58	·1015					
6. 58	18. 25	6. 5	·1014					
7. 12	20. 0	6. 26	·0945					
7. 20	18. 55	6. 45	·0980					
	***	6. 54	·0972					
7. 58	28. 0		***					
8. 3	24. 5	7. 42	·0975					
8. 7	26. 50		***					
8. 13	21. 25	7. 57	·0970					
8. 24	30. 0	8. 2	·0983					
	***	8. 7	·0976					
8. 40	17. 5	8. 16	·0991					
8. 50	20. 35	8. 27	·0960					
8. 57	13. 5		***					
	***	8. 53	·0984					
9. 1	13. 20	9. 2	·1016					
9. 7	23. 50	9. 12	·0976					
9. 17	11. 5	9. 23	·1013					
9. 28	25. 50	9. 35	·0958					
	***	9. 50	·0976					
9. 46	17. 0		***					
9. 52	20. 25	12. 0	·1000					
9. 58	18. 35	12. 20	·1003					
11. 33	23. 15	13. 10	·0998					
12. 15	22. 0	13. 26	·1004					
13. 42	24. 45	15. 7	·1002					
14. 9	24. 0	15. 36:	·1018					
14. 47	25. 0	16. 18	·1008					
15. 24	30. 30	18. 56	·1014					
16. 24	25. 20	20. 52	·1012					
20. 0	23. 35	23. 25	·0997					
22. 0	19. 50	23. 59	·1000					
Jan. 23								
h m	° ′ ″	h m		h m		h m	°	°
23. 57	22. 23. 30							
Jan. 24		Jan. 24		Jan. 24				
1. 0	22. 24. 35	0. 52	·0997	1. 30:	·01242	1. 40	47 ·0	50 ·4
6. 0	23. 5		***	10. 31	·00854	3 40	50 ·0	54 ·0
8. 24	22. 0	3. 57	·0993	10. 34	·00840	9. 40	49 ·0	52 ·4
8. 32	20. 10		***		***	23. 11	47 ·0	50 ·0
9. 34	20 30	4. 30	·1000	12. 18	·00755			
9. 44	19. 0		***	13. 14	·00675			
10. 31	19. 25	5. 58	·1000		***			
	***		***	18. 50	·00610			
10. 54	16. 5	10. 30	·1007	19. 30	·00639			
11. 32	18. 15	10. 34	·1029	20. 0	·00647			
11. 50	17. 30		***	20. 43:	·00622			
	***	10. 50	·1015		***			
12. 43	21. 0		***	23. 18	·00794			
	***	12. 26	·1007					
13. 36	19. 30	12. 36:	·1018					
	***	12. 48	·1013					
18. 0	26. 0		***					
	***	13. 7	·1023					
19. 30	27. 45	13. 25	·1021					
	***	13. 32	·1016					
20. 26	24. 0		***					
	***	14. 55	·1010					
20. 34	25. 10		***					
	***	17. 19:	·1016					
22. 0	20. 30	18. 20	·1026					
	***	19. 5	·1022					
23. 1	25. 0		***					
	***	21. 37	·1022					
23. 10	23. 0	22. 18	·0997					
	***	23. 22	·0986					
23. 13	24. 50							
Jan. 25		Jan. 25		Jan. 25				
0. 0	22. 22. 5	0. 9	·1014	0. 0	·00839	11. 16	50 ·4	54 ·0
	***	0. 14	·1003		***	21. 40	47 ·0	50 ·0
0. 3	23. 35	0. 15	·1010	1. 53	·00873			
	***	0. 17	·1003	3. 45	·00803			
0. 10	21. 0	0. 18	·1006	5. 6	·00691			
	***	0. 21	·1001	6. 1	·00780			
0. 25	24. 5	0. 27	·1013	7. 3	·00770			
	***	0. 36	·1007	7. 43	·00740			
0. 29	21. 15	0. 40	·1020	7. 49	·00750			
	***	0. 43	·1009	8. 4	·00712			
0. 38	24. 5	0. 45	·1023	9. 48	·00740			
	***	0. 48	·1006	10. 18	·00680			
0. 41	22. 45	0. 50	·1018	10. 54	·00690			
	***	0. 56	·1012		***			
0. 44	24. 40		***	11. 54	·00721			
	***	1. 33	·1013	12. 4	·00702			
					***			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 25		Jan. 25		Jan. 25				
h m	° ′ ″	h m		h m		h	°	°
0. 47	22. 22. 15	1. 36	·1003	12. 16	·00750			
	***		***	12. 30	·00743			
0. 49	25. 0	1. 50	·1018	12. 37	·00762			
	***		***	14. 0	·00712			
1. 53	27. 0	2. 2	·0996	17. 15	·00892			
	***		***	22. 2	·01355			
2. 2	25. 0	2. 13	·1016					
	***		***					
2. 29	27. 20	2. 23	·1000					
	***	2. 28	·1012					
2. 45	25. 15		***					
5. 0	25. 20	2. 42	·0996					
5. 11	24. 10		***					
5. 40	25. 55	3. 18:	·1008					
6. 29	15. 30		***					
6. 43	22. 0	3. 40	·1000					
6. 51	20 50		***					
7. 0	23. 35	4. 13	·1000					
7. 33	25. 0		***					
7. 45	17. 0	4. 33	·1012					
8. 1	32. 25	5. 5	·1000					
8. 20	16. 55	5. 30	·1004					
8. 23	17. 0		***					
	---	5. 48	·0995					
9. 23	23. 10		***					
9. 32	20. 10	6. 18	·0990					
9. 39	22. 5	6. 34	·1003					
9. 42	18. 15		***					
9. 50	26. 5	6. 42	·0995					
9. 58	23. 10	6. 52	·1003					
10. 27	26. 50	7. 0	·1000					
10. 54	11. 0	7. 15	·1009					
11. 5	14. 50	7. 25	·1009					
11. 11	13. 10	7. 34	·1003					
11. 31	17. 25	7. 48:	·1026					
11. 40	15. 25	7. 52	·1026					
12. 2	22. 0	8. 10	·0978					
12. 15	15. 55	8. 26	·0993					
12. 43	24. 40		***					
12. 52	20. 30	9. 26	·0982					
13. 8	23. 55		***					
13. 42	12. 0	9. 36	·0990					
14. 27	21. 15	9. 50	·1008					
14. 31	19. 5	9. 54	·0998					
14. 40	21. 10	10. 9	·1007					
14. 57	18. 40	10. 27	·0983					
15. 55	23. 0		***					
16. 12	21. 35	11. 57	·0984					
16. 59	23. 10	12. 0	·0966					
17. 21	21. 10	12. 16	·0997					
17. 46	22. 40	12. 23	·0989					
17. 59	21. 50	12. 34	·1001					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 25		Jan. 25						
h m	° ′ ″	h m		h		h	°	°
22. 2	22. 21. 0	12. 43	·0989					
23. 47	23. 40	12. 59	·1002					
			***					
		13. 18	·0990					
			***					
		13. 45	·1022					
			***					
		14. 28	·0996					
		14. 35	·1000					
		14. 48	·1000					
		15. 3	·1010					
			***					
		16. 8	·1006					
		17. 15	·1015					
			***					
		20. 36	·1010					
			***					
		23. 59	·0996					
Jan. 26		Jan. 26		Jan. 26				
1. 30	22. 25. 20	0. 34	·0990	1. 24	·01370	1. 40	53	·0 56 ·4
3. 41	26. 0	3. 30	·1000	3. 0	·01211	3. 40	54	·0 57 ·5
4. 8	21. 35	4. 0:	·0980	3. 57	·01040	9. 40	53	·0 56 ·3
4. 23	21. 30	4. 35	·1006	4. 40	·00923	21. 40	49	·0 52 ·5
4. 51	24. 0	4. 55:	·0991	5. 16	·00815			
5. 15	15. 30	5. 25	·1018	5. 29	·00830			
5. 48	22. 0	6. 2	·0992	8. 6	·00743			
6. 53	15. 55		***	13. 10:	·00719			
7. 22	20. 30	6. 40	·0997	17. 29	·00880			
9. 43	19. 10	7. 3	·1020	18. 6	·00875			
10. 0	18. 0		***		---			
11. 59	22. 40	8. 30	·1006	19. 8	·00984			
14. 6	23. 45		***		***			
14. 47	20. 40	9. 55	·1002	21. 9	·01092			
15. 44	25. 30		---	23. 55	·01170			
16. 1	24. 0	10. 15	·1009					
16. 39	27. 10		***					
16. 43	25. 10	13. 38	·1007					
17. 50	35. 55		***					
18. 30	22. 0	13. 46	·1014					
18. 45	23. 35	14. 2	·1006					
18. 48	21. 40	14. 10	·1018					
	***	14. 22	·1010					
19. 27	25. 40	15. 37	·1004					
19. 31	22. 55	15. 47	·1011					
	***		***					
19. 57	23. 35	16. 29	·1003					
21. 0	19. 50	17. 36	·1017					
23. 0	24. 35	17. 45:	·1012					
23. 30	22. 10	18. 2	·1021					
23. 50	23. 5	18. 50	·1003					
		19. 7	·1004					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Jan. 26 h m		h m		h m	°	°
		21. 32	·1000					
		23. 6	·0978					
		23. 59	·0992					
Jan. 27		Jan. 27		Jan. 27				
0. 30	22. 24. 25	0. 5	·0994	0. 45	·01158	1. 40	51 ·0	54 ·0
1. 53	26. 0		***	3. 5	·01090	3. 40	52 ·0	55 ·0
2. 4	28. 10	0. 40	·1000	3 54	·01041	9. 40	52 ·0	54 ·5
4. 0	22. 20		***	5. 32:	·00985	21. 40	46 ·5	51 ·0
5. 38	21. 25	3. 48	·1000	10. 28:	·00700			
6. 24	13. 50		***	21. 16	·01385			
8. 0	22. 10	5. 35	·1003	23. 2	·01358			
12. 0	23. 0		***					
18. 0	24. 0	5. 57	·0990					
20. 43	22. 25		***					
21. 22	19. 0	6. 39	·1011					
23. 45	24. 25		***					
		16. 0	·1016					
			***					
		17. 40	·1023					
		18. 45	·1022					
		21. 8	·1017					
		21. 18	·1012					
		23. 0	·1004					
		23. 59	1002					
Jan. 28		Jan. 28		Jan. 28				
1. 0	22. 25. 30	0. 15	·1002	2. 24	·01350	1. 40	47 ·8	51 ·5
	***		***	4. 10	·01209	3. 40	49 ·0	53 ·0
2. 53	25. 0	4. 57	1015	4. 18:	·01191	12. 0	47 ·0	52 ·0
6. 0	22. 5		***	9. 17:	·00856	21. 45	42 ·5	46 ·5
11. 30	24. 0	7. 30	·1016	16. 36	·01295			
14. 30	23. 55	9. 30	·1019	16. 40	·01289			
15. 30	27. 0	9. 35	·1016	18. 45	·01262			
16. 40	23. 35		***	19. 33	·01280			
20. 30	23. 55	16. 33	·1035	20. 28	·01260			
21. 43	19. 35	16. 58	·1031	22. 18	·01217			
23. 57	24. 10	18. 7	·1039	23. 54	·01264			
		21. 54	·1028					
		23 15	·1018					
		23. 59	·1016					
Jan. 29		Jan. 29		Jan. 29				
1. 30	22. 24. 0	0. 27	·1015	0. 30	·01272	1. 40	46 ·0	50 ·5
3. 0	24. 5	3. 29	·1009	2. 25	·01110	3. 40	49 ·0	53 ·0
6. 30	21. 20		***	4. 23	·00645	9. 40	50 ·8	54 ·0
8. 0	23. 0	6. 58	·1018	5. 53	·00681	21. 45	47 ·0	51 ·0
8. 15	22. 30		***	8. 12	·00630			
9. 37	24. 20	7. 13:	·1025	10. 15	·00620			
10. 13	18. 40		***	11. 9	·00643			
10. 18	19. 50	8. 16	·1012	12. 47	·00661			
10. 58	17. 0	9. 45	·1016	13. 24:	·00622			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 29 h m	° ′ ″	Jan. 29 h m		Jan. 29 h m		h m	°	°
11. 11	22. 21. 50	10. 31	·0996	21. 57	·01224			
11. 26	17. 25	11. 2	·1014					
12. 31	22. 30	11. 17	·0997					
12. 45	17. 35	11. 34	·1008					
14. 30	23. 30	11. 55	·0999					
18. 0	22. 10	12. 9	·1000					
21 30	20. 0	12. 32	·1010					
23. 45	28. 0	12. 46	·1044					
		13. 36	·1004					
		21. 10	·1024					
		21. 24	·1021					
		22. 47	·1002					
		23. 22	·1000					
		23. 59	·0989					
Jan. 30		Jan. 30		Jan. 30				
1. 30	22. 30. 0	0. 8	·0989	1. 12	·01070	1. 40	53 ·0	55 ·8
3. 0	31. 5	2. 22	·0996	2. 33	·00797	3. 40	55 ·0	57 ·8
	***	3. 8	·0986	3. 9	·00825	9. 40	53 ·5	57 ·0
3. 40	24. 35	3. 11	·0991	3. 44	·00842	21. 40	44 ·5	48 ·0
4. 27	28. 10	3. 19:	·0983	5. 15	·00794			
6. 14	25. 0	3. 53	·0996	6. 48	·00780			
6. 41	28. 30	4. 58	·1000	7. 9	·00998			
7. 10	23. 30	6. 28	·1002	8. 21	·01064			
7. 56	24. 35	6. 58	·0976	9. 2:	·01185			
8. 30	22. 0		***	11. 28	·01410			
9. 47	22. 0	10. 3	·1009	11. 32	·01404			
10. 20	17. 10		***	12. 4	·01439			
11. 33	20. 50	11. 7	·0999	14. 43	·01385			
12. 28	12. 15		***	16. 11	·01308			
13. 30	23. 0	11. 27	·1015	17. 3	·01268			
14. 7	21. 10	11. 32	·1018	17. 29	·01288			
14. 32	22. 50		***	17. 57	·01270			
14. 45	30. 0	12. 30	·1015	22. 45	·01265			
16. 7	15. 20	12. 45	·1003	23. 58	·01320			
16. 47	19. 5		***					
17. 0	17. 30	14. 37	·1023					
17. 43	23. 30	14. 45:	·1008					
20. 25	20. 25	15. 15	·1027					
21. 37	27. 0	16. 28	·1039					
21. 52	23. 0	17. 14	·1010					
22. 3	26. 45	17. 57	·1037					
22. 45	22. 0	18. 20	·1026					
23. 0	23. 30	20. 6	·1032					
23. 30	22. 5		***					
23. 58	25. 0	21. 20	·1005					
		21. 48	·1005					
		22. 3	·1019					
			***					
		23. 24	·1016					
		23. 32	·1003					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Jan. 30 h m		h m		h m	°	°
		23. 59	·1010					
Jan. 31		Jan. 31		Jan. 31				
1. 30	22. 26. 0	0. 2	·1011	2. 0	·01250	1. 40	47 ·0	50 ·5
		0. 45	·1005			3. 40	48 ·8	51 ·0
1. 38	25. 5	1. 52	·1003	5. 8	·01088	12. 30	53 ·0	56 ·0
				6. 23	·00929	22. 59	54 ·5	57 ·0
2. 29	30. 25	2. 6	·1013	7. 57	·00731			
3. 31	26. 55	2. 34	·1003	8. 40	·00794			
4. 11	27. 5			8. 50	·00763			
4. 17	29. 10	3. 36	·1000	10. 50	·00710			
5. 2	16. 35			11. 3	·00695			
5. 10	18. 0	4. 27	·1015	11. 15	·00691			
5. 27	11. 10			11. 45	·00660			
6. 15	28. 30	4. 52	·1000	13. 0	·00721			
6. 28	20. 5			18. 20	·00667			
6. 40	21. 0	6. 10	·1017					
6. 52	19. 0	6. 29	·1086	22. 43	·00685			
7. 5	21. 30	6. 40	·1006					
7. 27	14. 25	6. 50	·0994					
8. 5	24. 30	7. 16	·0985					
8. 39	9. 15	7. 31	·1005					
8. 48	19. 40	7. 51	·1007					
8. 56	15. 50	8. 11	·0991					
		8. 34	·0993					
9. 22	19. 5	8. 45	·1027					
9. 33	18. 25	8. 57	·0998					
10. 10	21. 0							
10. 45	20. 30	10. 33	·1004					
11. 7	14. 30	10. 48 :	·1014					
11. 45	18. 30	11. 2	·1009					
		11. 20 :	·1017					
13. 10	16. 30	11. 48 :	·0993					
14. 6	18. 35	12. 12	·1000					
14. 33	16. 30	12. 30 :	·0991					
15. 30	23. 0	13. 40	·1014					
16. 6	20. 0	14. 7	·1003					
16. 28	23. 30							
16. 45	19. 30	16. 17	·1000					
17. 0	21. 25	16. 37	·1013					
17. 13	20. 0	16. 56	·1003					
17. 35	21. 20							
18. 18	17. 0	17. 32	·1017					
19. 14	28. 25							
		19. 29	·1010					
19. 47	23. 0	19. 35	·1020					
		19. 40	·1006					
20. 43	23. 10	19. 58	·1024					
20. 48	18. 15	20. 2	·1013					
20. 50	22. 0							
20. 57	18. 0	20. 22	·1012					
21. 7	21. 10	20. 29	·1023					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 31 h m	° ′ ″	Jan. 31 h m		h m		h m	°	°
21. 13	22. 19. 10	20. 31	·1014					
		20. 36	·1025					
22. 34	24. 50	20. 50	·1004					
23. 14	28. 10	20. 58	·1082					
		20. 59	·1011					
		21. 0	·1020					
		21. 14	·1009					
		21. 26	·1019					
		22. 30	·0972					
		23. 9	·0999					
		23. 59	·0987					
Feb. 1		Feb. 1		Feb. 1				
0. 0	22. 28. 30	0. 32	·0980	0. 0	·00719	4. 35	57 ·0	61 ·0
0. 12	31. 5			0. 30	·00771	22. 0	52 ·0	58 ·0
0. 31	27. 0	1. 0 :	·0986	1. 0	·00805			
1. 12	31. 0			2. 30	·00910			
1. 21	28. 45	1. 15	·0970	3. 17	·00903			
1. 27	30. 30			4. 30	·00938			
1. 31	27. 45	1. 19	·0976		(†)			
1. 40	30. 40			22. 10	·01658			
2. 0	24. 45	1. 27	·0968	23. 45	·01665			
2. 52	29. 0			23. 55	·01648			
3. 29	26. 35	1. 35	·0975					
4. 15	29. 10							
4. 41	27. 0	1. 40	·0970					
5. 2	22. 35							
5. 19	18. 40	2. 17	·0988					
	(†)							
6. 45	15. 20	2. 50	·0987					
6. 59	17. 10							
7. 8	14. 55	3. 0	·0976					
7. 24	18. 0	3. 40	·0991					
7. 33	17. 0	4. 25	·0985					
7. 46	21. 30		(†)					
7. 54	19. 55	10. 10	·0996					
8. 40	22. 0	11. 34	·0983					
8. 59	17. 10	11. 45	·1004					
9. 12	19. 40	12. 30	·0983					
9. 27	18. 10	13. 0	·1000					
9. 56	22. 0							
10. 26	17. 5							
10. 50	20. 25							
11. 3	26. 0							
11. 15	19. 0							
11. 47	27. 50							
12. 5	23. 20							
12. 18	25. 40							
12. 40	18. 0							
13. 12	15. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.
Feb. 1	
h m	° ′ ″
13. 58	22. 23. 30
15. 0	18. 10
15. 33	26. 5
16. 10	25. 50
16. 29	22. 5
17. 10	20. 20
18. 17	27. 30
20. 13	21. 0
20. 58	20. 20
	***
21. 55	22. 15
22. 8	21. 20
23. 0	22. 50
23. 6	21. 0
23. 15	23. 10
23. 28	22. 40
23. 33	23. 0
23. 40	22. 5
23. 59	29. 0
Feb. 2	
1. 30	22. 24. 30
1. 42	26. 35
1. 48	24. 10
1. 51	25. 25
2. 8	23. 50
2. 12	26. 30
2. 24	24. 25
	***
2. 47	28. 30
3. 36	21. 10
4. 10	24. 15
6. 10	20. 10
7. 0	23. 0
7. 45	20. 20
	***
8. 10	22. 0
9. 0	20. 5
9. 22	9. 35
9. 31	10. 35
9. 41	13. 30
9. 43	12. 0
9. 57	15. 10
10. 5	14. 5
10. 32	16. 50
10. 46	15. 10
11. 15	18. 0
11. 43	21. 55
12. 32	18. 0
13. 0	22. 30
14. 29	21. 0
15. 50	22. 35

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 2	
h m	
0. 3	·0998
	***
1. 30	·1001
	***
2. 0:	·0982
	***
2. 56	·0998
	***
4. 10	·0995
	***
5. 1	·0993
5. 10	·1001
	***
6. 35	·1001
	***
7. 0	·1010
	***
7. 15	·1005
7. 35:	·1006
8. 22	·0993
8. 35	·1032
	***
9. 40	·0995
	***
10. 18	·0987
10. 25	·0966
10. 35	·0990
	***
11. 57	·1008
12. 18:	·1000
13. 7:	·1008
	***

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Feb. 2	
h m	
1. 28	·01520
	***
2. 9	·01430
2. 40	·01400
4. 34	·01172
6. 24	·01053
6. 31	·01230
6. 46	·01220
	·01252
9. 22	·01212
9. 36	·01231
10. 15:	·01210
19. 2	·01553
20. 40	·01530
21. 40	·01570
21. 51	·01563
23. 54	·01570

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	55 ·0	61 ·0
3. 40	58 ·0	61 ·5
9. 40	55 ·0	62 ·0
21. 40	52 ·0	57 ·5

Gottingen Mean Solar Time.	Western Declination.
Feb. 2	
h m	° ′ ″
16. 31	22. 20. 55
19. 2	24. 25
20. 21	22. 25
20. 30	24. 0
21. 56	18. 25
22. 38	19. 0
23. 7	22. 10
23. 13	21. 0
23. 43	23. 30
Feb. 3	
0. 30	22. 24. 30
1. 16	23. 30
3. 0	26. 0
4. 19	19. 15
4. 58	20. 30
5. 11	19. 10
8. 8	21. 55
8. 40	13. 45
9. 1	13. 0
9. 32	18. 30
9. 48	17. 50
10. 58	20. 0
12. 47	23. 30
14. 3	22. 30
15. 33	24. 10
16. 20	22. 0
18. 0	23. 35
20. 30	22. 0
21. 32	19. 5
22. 20	22. 0
23. 5	18. 50
23. 46	22. 0
Feb. 4	
1. 0	22. 23. 10
2. 0	24. 35
2. 16	24. 0
3. 0	25. 35
6. 16	21. 35
6. 36	22. 50

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 2	
h m	
16. 38	·1003
	***
19. 49	·1015
	***
21. 25:	·0996
	***
22. 0:	·1003
	***
22. 12	·0998
22. 20	·1004
	***
23. 0	·1000
Feb. 3	
0. 15	·1000
	***
1. 30:	·0994
	***
2. 45	·1000
	***
3. 25	·0991
	***
4. 25	·0991
4. 34	·0997
	***
4. 50	·0997
5. 0	·0992
6. 10	·0990
	***
7. 55	·1002
8. 18	·0994
8. 54	·1025
	***
9. 15	·1025
	***
10. 45	·0997
	***
12. 18	·1005
15. 20	·1013
17. 25	·1014
20. 10	·1025
22. 4	·1012
	***
23. 59	·1015
Feb. 4	
0. 30:	·1009
2. 0	·0997
3. 30:	·0999
4. 30:	·0992
6. 18	·1003
7. 50	·1006

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Feb. 3	
h m	
0. 30	·01590
1. 48	·01615
5. 0	·01203
	·01357
5. 28	·01351
6. 20	·01430
6. 59	·01440
9. 15:	·01575
11. 17:	·01700
18. 18	·01513
19. 0	·01532
23. 0	·01465
Feb. 4	
1. 30	·01492
8. 8	·00825
13. 0	·00801
15. 49	·00774
18. 50	·00811
23. 50	·00810

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	55 ·0	58 ·0
3. 40	57 ·0	59 ·8
9. 40	56 ·0	60 ·8
21. 45	48 ·0	53 ·0
1. 40	50 ·5	55 ·0
3. 40	54 ·0	59 ·0
11. 27	54 ·0	60 ·5
21. 45	58 ·0	62 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.
Feb. 4	
h m	° ′ ″
7. 57	22. 20. 5
8. 7	14. 20
8. 15	16. 15
9. 0	11. 0
10. 36	19. 10
11. 2	17. 10
14. 15	20. 45
16. 44	20. 0
19. 0	20. 5
21. 23	17. 10
23. 52	21. 40
Feb. 5	
1. 0	22. 23. 40
1. 30	28. 0
2. 12	26. 5
2. 53	26. 55
3. 46	23. 0
5. 0	24. 25
6. 48	20. 5
7. 24	24. 30
7. 52	20. 20
8. 27	21. 10
8. 38	19. 0
8. 50	22. 0
9. 3	19. 5
10. 0	21. 45
11. 28	20. 15
11. 45	9. 5
14. 15	23. 25
14. 49	20. 10
15. 48	24. 30
16. 4	23. 0
16. 27	25. 0
17. 15	21. 10
18. 0	22. 25
18. 19	21. 20
20. 0	22. 5
21. 18	19. 10
23. 57	22. 20

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 4	
h m	
8. 3	·1018
9. 2	·1020
9. 50	·1000
10. 30	·1000
10. 50	·1006
11. 15	·1002
12. 40	·1008
12. 55	·1003
14. 15	·1012
15. 0	·1007
16. 40	·1010
20. 30	·1008
22. 30	·0994
23. 59	·1000
Feb. 5	
0. 30	·0996
1. 10	·1000
1. 26	·1000
3. 18	·0984
4. 26:	·0998
5. 0	·0990
5. 10	·0996
6. 36	·0996
7. 0	·1002
7. 42:	·0988
8. 33	·0995
8. 45:	·1003
8. 55:	·0991
9. 15	·0999
10. 15	·1003
11. 28	·0999
11. 50:	·1029
12. 34	·0987
14. 20	·1001
15. 40	·0999
16. 0	·1002
20. 16	·1012
21. 30	·1000
22. 40	·1001
23. 48	·0995
23. 59	·0997

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Feb. 5	
h m	
1. 5	·00808
2. 12	·00880
2. 33	·00938
	·01530
5. 8	·01320
7. 40	·01165
11. 40	·01150
12. 22:	·01146
22. 30	·01574
23. 59	·01595

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	59 · 0	63 · 0
3. 40	59 · 0	63 · 0
9. 40	59 · 0	61 · 0
21. 40	55 · 0	58 · 5

Gottingen Mean Solar Time.	Western Declination.
Feb. 6	
h m	° ′ ″
1. 0	22. 24. 0
2. 0	26. 20
2. 40	25. 10
3. 31	28. 5
3. 45	27. 0
4. 8	29. 25
4. 42	18. 0
6. 0	28. 15
6. 42	25. 30
7. 40	29. 40
8. 51	19. 25
10. 3	22. 0
10. 59	6. 20
11. 20	15. 0
11. 41	8. 30
12. 4	21. 0
12. 30	19. 30
13. 59	23. 25
14. 31	27. 0
15. 15	20. 50
16. 32	30. 20
17. 49	22. 45
20. 43	22. 20
22. 40	20. 15
23. 10	22. 50

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 6	
h m	
0. 55	·1000
2. 24	·1000
2. 35	·0994
3. 0	·1002
3. 35	·1000
3. 40	·1008
4. 10	·0963
4. 58	·1002
5. 15	·0991
5. 33	·0997
5. 56	·0985
6. 24	·0998
6. 40	·0988
7. 20	·1001
7. 33	·0992
8. 0	·0991
8. 15	·1001
8. 27	·0992
8. 33	·0996
8. 40	·0990
8. 55	·0999
9. 22	·1000
9. 30	·1006
9. 50	·1006
10. 15	·0994
10. 50	·0983
11. 15	·1005
11. 25	·1002
11. 45:	·1028
12. 5	·1000
14. 27	·1005
14. 32	·1010
16. 26	·1008
16. 38	·1017
18. 34	·1024
20. 0	·1024
21. 55	·1018

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Feb. 6	
h m	
1. 10	·01590
3. 30	·01431
4. 5	·01390
5. 33	·01340
7. 40	·01229
10. 42:	·01333
11. 15	·01389
12. 0	·01410
12. 18	·01400
13. 55	·01561
15. 13	·01501
17. 8	·01440
22. 30	·01339
23. 59	·01390

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	57 · 0	59 · 5
3. 35	58 · 0	60 · 0
9. 40	55 · 0	61 · 0
21. 47	46 · 3	52 · 0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Feb. 6						
h m	° ′ ″	h m		h m		h m	°	°
		22. 5	·1020					
			***					
		23. 20	·1002					
			***					
		23. 59	·1002					
Feb. 7		Feb. 7		Feb. 7				
1. 0	22. 25. 0	0. 20	·1000	1. 42	·01420	1. 40	49 ·0	53 ·8
1. 21	29. 5	3. 27	·0985	2. 28	·01370	3. 40	52 ·0	56 ·5
1. 32	25. 30		***	2. 38	·01339	9. 40	54 ·0	58 ·4
	***	4. 27	·0990	2. 57	·01322	22. 40	51 ·0	56 ·0
2. 28	29. 35		(†)	4. 47	·00953			
2. 48	20. 45	6. 35	·0987	6. 26	·01006			
	***		***	8. 13	·01000			
3. 19	25. 0	6. 56	·0977	8. 38	·00967			
3. 40	24. 5	7. 2	·0986	8. 54	·00980			
4. 30	26. 0	7. 8	·0981	9. 52	·00940			
6. 3	24. 10	7. 18	·0981	12. 28	·00938			
6. 16	21. 35	8. 6	·0989	13. 42:	·00865			
7. 55	21. 0	8. 24	·1028	20. 17	·01304			
8. 15	11. 50		***	21. 14	·01318			
	(†)	8. 29	·1026	23. 37	·01405			
9. 0	22. 5	8. 34	·0988					
9. 30	10. 30	8. 52	·1016					
9. 46	18. 0	9. 2	·0999					
10. 2	14. 40	9. 12	·1006					
	(†)	9. 21	·0994					
12. 33	19. 50	9. 35	·1018					
12. 50	17. 0	9. 54	·0990					
13. 10	22. 55	10. 4	·0997					
13. 40	16. 0	11. 37	·0994					
	***	11. 45	·0997					
15. 41	21. 30	12. 15	·0991					
16. 15	18. 25	12. 27	·1000					
17. 3	22. 30	15. 33	·1000					
17. 51	20. 15	16. 15	·1008					
18. 6	21. 45		(†)					
	(†)	18. 39	·1010					
21. 44	18. 5		***					
	(†)	20. 28	·1006					
			***					
		22. 22	·1011					
		23. 32	·1002					
		23. 59	·1002					
Feb. 8		Feb. 8		Feb. 8				
1. 37	22. 24. 0	0. 10:	·1000	0. 5	·01423	9. 13	54 ·0	60 ·0
2. 22	26. 30	0. 30	·0998	1. 0:	·01448	21. 40	50 ·0	56 ·0
	***		***		***			
3. 25	24. 10	2. 10	·0988	10. 9	·00992			
3. 48	26. 40	3. 30	·0988	10. 30	·00998			
7. 19	21. 30	4. 33	·1002	10. 47	·00983			
			(†)					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 8		Feb. 8			Feb. 8			
h m	° ′ ″	h m			h m	h m	°	°
7. 59	22. 4. 0	6. 56	·0986		11. 26	·00960		
	***	7. 36	·1032		19. 12:	·01164		
9. 31	21. 0	8. 18	·1002		20. 33:	·01237		
10. 39	19. 55	9. 26	·1000		23. 35	·01451		
10. 58	16. 0	9. 50	·1006					
11. 15	18. 50	10. 12	·0999					
11. 31	10. 10	10. 34:	·1005					
	(†)	10. 50	·0999					
13. 30	19. 0	11. 10	·1027					
14. 3	21. 5	11. 35	·1002					
15. 10	19. 0	17. 0	·1006					
17. 43	24. 0		(†)					
18. 9	21. 5	18. 54	·1016					
21. 30	23. 0	21. 15	·1008					
22. 31	20. 10	21. 37	·1014					
23. 30	19. 55		***					
		23. 59	·0992					
Feb. 9		Feb. 9			Feb. 9			
1. 15	22. 24. 35	0. 30	·0992		1. 58	·01374	1. 40	52 ·5 57 ·0
2. 41	27. 0	2. 5	·0993		3. 47	·01271	3 40	54 ·0 59 ·0
5. 45	21. 0	2. 32	·0980		5. 10	·01140	9 40	52 0 58 ·0
7. 30	23. 10	3. 30	·0999		6. 15:	·01103	21. 45	44 ·5 49 ·0
8. 24	21. 0	7. 45	·1007		9. 30:	·00979		
16. 30	24. 55	8. 12	·1002		15. 30	·01437		
20. 0	23. 15	9. 12	·1012		22. 8	·01330		
22. 3	18. 30	20. 27	·1033		23. 55	·01371		
23. 44	22. 30	23. 59	·1005					
Feb. 10		Feb. 10			Feb. 10			
1. 0	22. 25. 10	1. 0	·1000		1. 30	·01344	1. 40	46 ·3 52 ·0
2. 42	27. 25	8. 56	·1023		4. 40	·00884	3. 40	50 ·0 56 ·5
7. 2	19. 50	15. 58	·1027		5. 45	·00890	10. 10	50 ·0 52 ·0
8. 10	22. 0	20. 32:	·1036		6. 33	·00925	21. 40	44 ·0 49 ·0
8. 32	20. 20	21. 30	·1030		10. 30:	·00842		
9. 0	22. 0	23. 55	·1000		17. 30	·01383		
17. 2	24. 0				20. 48	·01345		
21. 59	18. 5				22. 0	·01315		
23. 51	22. 0				23. 58	·01357		
Feb. 11		Feb. 11			Feb. 11			
0. 30	22. 23. 5	1. 0	·0990		0 50	·01328	1. 40	47 ·0 53 ·0
2. 1	26. 10	4. 40	·1006		3. 38	·00913	3. 40	51 ·0 56 ·8
7. 0	20. 50	6. 3	·1006		4. 8	·00947	9. 40	53 0 58 ·0
7. 38	18. 55	20. 12:	·1030		5. 30	·00952	21. 46	42 ·0 47 ·5
10. 30	22. 35	21. 15	·1044		6. 31	·01010		
12. 20	21. 40	23. 55	·1012		10. 12:	·00896		
18. 43	24. 15				16. 2	·01406		
22. 2	17. 15				22. 2	·01276		
23. 50	21. 25				23. 53	·01314		

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 12		Feb. 12		Feb. 12				
h m	° ′ ″	h m		h m		h m		
0. 45	22. 23. 5	0. 15	·1012	1. 10	·01310	1. 48	46 ·5	51 ·0
2. 30	25. 40	2. 47	·1002	3. 45	·00895	3. 40	52 ·0	57 ·0
7. 0	21. 25	8. 15	·1026	6. 16	·00955	9. 40	51 ·0	54 ·0
9. 38	23. 25			10. 0	·00870	21. 46	43 ·0	48 ·0
11. 1	18. 10	12. 27	·1015	16. 40	·01355			
15. 26	26. 30	17. 12	·1032	22. 0	·01300			
16. 0	23. 5	21. 3	·1035	23. 50	·01330			
16. 38	24. 50	23. 55	·1015					
17. 49	22. 0							
21. 3	21. 0							
22. 0	17. 45							
23. 50	21. 25							
Feb. 13		Feb. 13		Feb. 13				
0. 30	22. 22. 5	0 18	.1010	1. 0	·01301	1. 40	46 ·0	52 ·0
2. 16	25. 15	5. 57	·1013	4. 57	·00830	3. 40	49 ·0	54 ·0
5. 38	21. 55	6. 13	·1006	6. 50	·00895	9. 40	49 ·5	54 ·8
6. 0	22. 35	7. 34	·1013	12. 30	·00850	21. 48	45 ·0	51 ·0
6. 15	21. 15	9. 0	·1010	23. 5	·01328			
9. 47	19. 30	10. 22	·1017					
10. 14	16. 0							
11. 35	20. 25	20. 35	·1030					
17. 59	20. 30	23. 5	·1012					
19. 40	23. 0	23. 50	·1012					
20. 22	20. 55							
20. 58	21. 50							
21. 57	18. 0							
23. 45	21. 0							
Feb. 14		Feb. 14		Feb. 14				
1. 30	22. 23. 35	0. 30	·1014	1. 28	·01232	1. 40	49 ·4	53 ·3
6. 0	21. 10	1. 15	·1027	3. 51	·01005	3. 40	51 ·0	55 ·0
11. 30	21. 30	14. 30	·1044	4. 30	·00936	9. 40	50 ·0	55 ·8
12. 1	20. 0			5. 28	·00850	23. 20	45 ·0	51 ·0
12. 41	21. 25	20. 56	·1038	6. 37	·00900			
17. 20	24. 30	21. 8	·1054		·01156			
19. 0	20. 45	21. 15	·1066	10. 30	·01038			
20. 36	19. 5	21. 20	·1057	12. 44	·01093			
21. 12	16. 0	21. 22	·1067	14. 0	·01099			
21. 32	20. 0			17. 38	·01395			
		21. 44	·1014	18. 58	·01360			
21. 39	18. 55	21. 45	·1060	20. 13	·01375			
21. 40	32. 0	21. 46	·1034					
21. 45	18. 5	21. 47	·1050	21. 40	·01315			
21. 50	22. 37. 50	21. 57	·0892	21. 52	·01275			
			(†)	22. 18	·01364			
22. 9	21. 54. 30	22. 2	·0892	22. 38	·01301			
				22. 45	·01371			
22. 31	22. 10. 25	22. 32	·1090	22. 50	·01321			
		22. 40	·0947	22. 55	·01371			
22. 41	21. 56. 30	22. 50	·1027	23. 2	·01346			
22. 43	54. 55	22. 54	·0986	23. 18	·01425			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 14		Feb. 14		Feb. 14				
h m	° ′ ″	h m		h m		h m		
22. 48	21. 43. 20	23. 0	·1060	23. 32	·01340			
22. 57	47. 45	23. 3	·1024					
23. 1	21. 40. 30	23. 18	·1100					
23. 18	22. 8. 20	23. 27	·1050					
23. 32	21. 57. 0	23. 40	·1080					
23. 46	22. 21. 40							
Feb. 15		Feb. 15		Feb. 15				
0. 0	22. 27. 0	0. 15	·1006	0. 0	·01420	11. 38	47 ·0	55 ·4
0. 10	30. 55	0 24	·1014			21. 40	48 ·0	53 ·0
		0. 37	·0976	0. 54	·01450			
0. 32	24. 0	0. 39	·0980					
		0. 45	·0973	1. 14	·01405			
0. 41	23. 10	0. 49	·0982					
0. 52	32. 20	1 10	·0938	1. 25	·01450			
1. 20	14. 50	1. 48	·0966					
1. 27	16. 50	2. 0	·0915	1. 49	·01404			
1. 33	14. 0	2. 19	·0918					
1. 54	27. 30	2. 39	·0961	2. 0	·01435			
		2. 56	·0903					
2. 23	12. 50		(†)	2. 15	·01413			
2. 29	22. 14. 25	3. 8	·0902					
		3. 12	·0930	2. 24	·01456			
2. 44	21. 57. 30	3. 18	·0916					
2. 47	22. 0. 0	3. 36	·1022	2. 35	·01442			
3. 1	21. 48. 20							
		3 59	·1019	3. 1	·01528			
3. 13	22. 17. 20	4. 2	·1030					
				5. 19	·01362			
3. 32	21. 55. 15	4. 34	·1028	6. 24	·01230			
		4. 50	·1042					
3. 47	22. 0. 40			7. 18	·01114			
4. 12	21. 50. 30	6. 2	·1030					
4. 37	22. 13. 0			8. 13	·01070			
4. 41	11. 20	6. 22	·1062					
				8. 24	·01081			
5. 1	21. 10	6. 55	·1022					
5. 4	18. 5			8. 46	·01040			
		7. 18	·1035					
5. 29	27. 0			9. 2	·00990			
5. 40	21. 10	8. 18	·1016					
				9. 18	·00988			
5. 58	16. 45	8. 45	·1034					
				10. 17	·00937			
6. 3	20. 0	9. 19	·1019					
				10. 26	·00921			
6. 8	17. 15	9. 32	·1030					
				11. 41	·00910			
6. 18	23. 15	9. 55	·1020					
				11. 4	·00857			
6. 29	21. 5	10. 22	·1033	11. 34	·00833			
				11 5[illegible]	·00843			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 15		Feb. 15		Feb. 15				
h m	° ′ ″	h m		h m		h m	°	°
6. 47	22. 29. 0	10. 40	·1008	12. 4	·00830			
	***		***		***			
7. 20	20. 5	11. 0	·1028	12. 9	·00826			
			***	12. 19	·00799			
7. 48	27. 30	11. 53	·1010	12. 40	·00670			
8. 10	25. 35		***	12. 46	·00645			
		12. 0	·1030	12. 56	·00583			
8. 45	13. 10		***	13. 1	·00560			
9. 2	17. 30	12. 2	·1018	13. 13	·00535			
9. 21	9. 0		***	13. 25	·00525			
9. 42	20. 25	12. 5	·1027	13. 32	·00540			
		12. 14	·1005	13. 48	·00511			
10. 1	16. 30		***	14. 1	·00381			
10. 21	21. 30	12. 32	·1020	14. 12	·00400			
10. 36	19. 20	12. 35	·1010	14. 27	·00495			
10. 54	13. 45		***	14. 32	·00465			
11. 13	22. 45	12. 55	·1066	14. 41	·00480			
11. 17	22. 0		***	14. 47	·00365			
11. 28	25. 30	13. 19	·1038	15. 1	·00431			
11. 31	23. 40	13. 57	·1088	15. 6	·00335			
11. 49	31. 0	13. 50	·1018	15. 12	·00422			
11. 58	17. 0		***	15. 14	·00390			
		14. 2	·1047	15. 25	·00595			
12. 10	27. 0		***	15. 32	·00590			
		14. 20	·1019	15. 46	·00513			
12. 18	23. 55	14. 32	·1073	15. 58	·00560			
	***		***		***			
12. 30	27. 35	14. 41	·1044	16. 15	·00551			
				16. 29	·00521			
12. 41	19. 30	14. 59	·1091	16. 45	·00550			
				16. 56	·00530			
12. 43	23. 5	15. 48	·0986		***			
				19. 13	·00825			
12. 48	22. 0	16. 14	·1024	19. 58	·00830			
		16. 36	·0987					
12. 59	32. 20			23. 4	·01220			
		16. 56	·0981	23. 14	·01210			
13. 10	27. 0	17. 1	·0991	23. 25	·01233			
13. 12	28. 30	17. 30	·0952					
13. 17	21. 0							
13. 20	24. 30	18. 40	·1014					
13. 26	20. 0							
13. 29	32. 55	19. 22	·0977					
		19. 29	·0987					
13. 38	30. 15	19. 32	·0979					
		19. 43	·0996					
13. 44	32. 0	20. 3:	·0980					
		20. 16	·0988					
13. 47	27. 30	20. 25	·0980					
		20. 31	·0994					
13. 51	31. 0		***					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 15		Feb. 15						
h m	° ′ ″	h m		h m		h m	°	°
13. 57	22. 27. 30	20. 36	·0946					
	***		***					
14. 6	37. 5	23. 3	·0990					
			***					
14. 21	31. 30	23. 59	·0985					
14. 31	36. 10							
14. 40	30. 55							
14. 43	36. 35							
14. 50	27. 30							
15. 6	42. 0							
	***							
16. 1	27. 0							
	***							
16. 25	29. 35							
17. 31	20. 35							
17. 51	23. 25							
	***							
18. 33	16. 35							
	***							
19. 26	35. 30							
19. 38	37. 10							
	***							
20. 0	28. 10							
	***							
20. 29	23. 30							
	***							
20. 33	27. 25							
	***							
20. 52	21. 35							
20. 56	24. 25							
21. 6	17. 5							
	***							
21. 10	23. 25							
	***							
21. 14	19. 5							
	***							
21. 20	22. 40							
21. 29	18. 0							
21. 30	20. 0							
21. 38	17. 0							
21. 41	19. 25							
21. 43	16. 35							
	***							
22. 8	13. 30							
	***							
22. 19	19. 0							
	***							
22. 28	15. 0							
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 15								
h m	° ′ ″	h m		h m		h m	°	°
22. 34	22. 24. 0							
22. 39	17. 5							
22. 44	25. 55							
22. 50	22. 10							
22. 54	26. 20							
23. 2	23. 0							
23. 10	28. 0							
23. 24	24. 15							
23. 44	22. 50							
Feb. 16		Feb. 16		Feb. 16				
1. 20	22. 23. 25	0. 13	·0972	1. 40	·01230	1. 40	51 ·0	55 ·0
						3. 40	54 ·0	57 ·8
2. 52	23. 35	0. 52	·0993	2. 27	·01200	9. 40	53 ·0	58 ·0
3. 6	27. 0			2. 36	·01210	21. 46	53 ·0	58 ·5
3. 28	23. 0	2. 33	·0998	3. 10	·01155			
3. 33	25. 5							
4. 11	20. 20	3. 9	·0965	3. 33	·01132			
4. 27	22. 30							
4. 55	19. 35	3. 33	·0990	3. 45	·01090			
5. 12	4. 5							
5. 28	15. 40	5. 5	·0984	4. 8	·01061			
5. 36	11. 0	5. 25	·1050					
5. 41	12. 35	5. 32	·1010	4. 59	·01083			
5. 49	10. 5							
		6. 45	·0974	5. 17	·01130			
6. 40	19. 50	7. 3	·0992					
6. 49	19. 0	7. 47	·0995	5. 29	·01082			
7. 8	20. 20							
7. 22	8. 10	8. 2	·0985	5. 45	·01051			
		8. 18	·1003					
7. 52	17. 25	9. 6	·0969	7. 30	·01075			
8. 10	12. 0	9. 24	·0990					
8. 34	22. 0	9. 30	·0978	7. 34	·01180			
8. 50	19. 45	9. 45	·0990	9. 8	·01075			
8. 59	22. 20	10. 5	·0986					
9. 13	16. 0	10. 18	·0972	11. 46	·01070			
9. 23	22. 45	10. 36	·0984	12. 30	·01030			
9. 41	13. 0			12. 49	·01045			
10. 10	21. 0	11. 38	·0972	15. 10	·01072			
10. 30	13. 0			21. 12	·00968			
11. 20	18. 25	12. 5	·0993	23. 52	·01080			
		12. 32	·0960					
11. 42	16. 20	12. 57	·0996					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 16		Feb. 16		Feb. 16				
h m	° ′ ″	h m		h m		h m	°	°
12. 6	22. 24. 10	13. 14	·0991					
12. 44	16. 0	13. 24	·0980					
13. 0	22. 15	13. 38	·0980					
13. 46	16. 5	13. 53	·0987					
14. 54	21. 25	16. 50	·0982					
15. 38	19. 0	18. 22	·0992					
16. 45	23. 10	18. 33	·0984					
17. 46	20. 0	20. 48	·0975					
18. 31	23. 0	22. 49	·0939					
18. 42	21. 30	23. 31	·0951					
19. 1	23. 0							
		23. 38	·0941					
19. 40	20. 0							
		23. 55	·0952					
20. 15	22. 10							
20. 44	19. 20							
20. 53	22. 40							
21. 11	18. 50							
21. 28	18. 30							
21. 34	21. 10							
21. 45	19. 10							
21. 48	22. 20							
21. 52	20. 20							
22. 40	22. 30							
23. 19	21. 0							
23. 53	26. 30							
Feb. 17		Feb. 17		Feb. 17				
0. 40	22. 31. 0	0. 29	·0933	1. 0	·01140	1. 40	56 ·0	60 ·5
		0. 36	·0970	1. 23	·01160	3. 40	60 ·5	65 ·0
0. 50	33. 30			1. 36	·01233	9. 40	60 ·0	64 ·5
		1. 28	·0956	2. 17	·01183	21. 40	53 ·5	58 ·5
1. 28	26. 10			3. 51	·01200			
		3. 40	·0981					
3. 0	27. 35	3. 55	·0967	4. 30	·01265			
4. 0	22. 30	3. 58	·0973	5. 57	·01310			
		4. 1	0966	6. 26	·01300			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 17		Feb. 17		Feb. 17				
h m	° ′ ″	h m		h m		h m	°	°
4. 20	22. 14. 30	4. 8	·0965	6. 39	·01325			
4. 53	20. 0	4. 32	·0991	8. 30	·01335			
5 37	19. 30		***	9. 10	·01321			
5. 58	11. 0	5. 48	·0977	10. 2:	·01401			
6. 5	14. 50	6. 2	·0998	14. 42	·01590			
6. 10	13. 35	6. 7	·0986	14. 45	·01611			
6. 28	17. 30	6. 14	·0989		***			
6. 34	15. 10	6. 29	·0966	15. 14	·01565			
7. 0	18. 25	6. 42	·0973	15. 32	·01570			
7. 14	11. 15	7. 10	·0965	15. 43	·01550			
7. 30	16. 0	7. 20	·0975	15. 56	·01565			
7. 43	12. 30	7. 31	·0970	16. 31	·01530			
8. 20	19. 5		***	16. 45	·01480			
8. 31	12. 55	8. 21	·0967	17. 2	·01500			
8. 48	21. 0	8. 37	·1005	17. 9	·01494			
9. 9	22. 35	9. 21	·0963	18. 27	·01594			
9. 28	16. 55		***	19. 2	·01575			
9. 58	19. 0	14. 43	·0991	19. 3	·01530			
10. 6	15. 5	14. 46	·1018	19. 4	·01600			
10. 22	16. 25		***	19. 10	.01526			
10. 42	13. 35	15. 4	·1023	19. 12	·01581			
	***	15. 25	·0996	19. 15	·01549			
14. 44	28. 0		***	19. 29	.01641			
	***	15. 34	·0997	19. 46	·01231			
15. 10	39. 0		***	19. 48	·01289			
15. 30	34. 0	15. 50	·0984	19. 56	·01121			
15. 30	34. 35		***	19. 59	·01310			
15. 53	26. 0	16. 0	.0996	20. 1	·01260			
	***		***	20. 2	·01350			
16. 2	28. 0	16. 6	·0990	20. 3	·01305			
	***		***	20. 5	·01348			
16. 15	25. 20	16. 23	·1001	20. 10	·01230			
	***		***	20. 12	·01292			
16. 43	38. 50	16. 45	·0971	20. 20	·00910			
	***		***	20. 21	·01076			
17. 29	20. 35	17. 0:	·0990	20. 31	·00860			
17. 59	22. 30		***	20. 35	·00967			
18. 2	19. 50	17. 45	·1000	20. 36	·01021			
	***		***	20. 38	·01168			
18. 14	24. 0	18. 38	·0988	20. 40	·01072			
	***	18. 41	·0957	20. 41	·01228			
18. 24	20. 5	18. 42	·1038	20. 42	·01181			
	***	18. 44	·0969	20. 43	·01290			
18. 30	29. 10	18. 46	·1009	20. 44	·01235			
	***	18. 47	·0988	20. 44½	·01285			
18. 40	19. 0	18. 49	·1025	20. 45	.01270			
18. 41	32. 0	18. 50	·0982	20. 46	·01350			
18. 42	20. 15	18. 51	·0997	20. 47	·01239			
18. 45	29. 35	18. 52	·0981	20. 48	·01326			
18. 46	19. 5		***	20 49	·01265			
18. 52	29. 0	18. 57	·0978	20. 50	·01380			
18. 53	13. 5		***	20. 52	·01320			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 17		Feb. 17		Feb. 17				
h m	° ′ ″	h m		h m		h m	°	°
18. 57	22. 23. 30	18. 59	·1027	20. 58	·01432			
19. 0	9. 25	19. 2	·0983	20. 59	·01335			
19. 1	16. 0	19. 3	·1044	21. 0	·01422			
19. 2	6. 0		***	21. 3	·01285			
19. 7	23. 35	19. 9	·0943	21. 6	·01494			
	***	19. 11	·1006	21. 8	·01420			
19. 11	16. 25	19. 12	·0953	21. 9	·01481			
19. 13	22. 25	19. 13	·1015	21. 16	·01202			
19. 14	4. 10		***	21. 20	·01459			
	***	19. 14	·0946	21. 22	·01350			
19. 16	10. 45	19. 17	·0990	21. 23	·01430			
19. 18	4. 0	19. 18	·0966	21. 25	·01370			
19. 20	8. 25		***	21. 26	·01460			
19. 21	2. 0	19. 21	·1006	21. 27	·01410			
	***		***	21. 28	·01480			
19. 45	46. 0	19. 25	·0965	21. 29	·01441			
19. 49	35. 20		***	21. 30	·01520			
19. 56	45. 5	19. 29	·1005	21. 32	·01445			
20. 0	13. 50		(†)	21. 33	·01630			
	***	21. 33	·1040	21. 34	·01475			
20. 13	35. 0	21. 43	·0922	21. 34	·01671			
20. 19	9. 30	21. 45	·0938	21. 40	·01490			
20. 22	33. 0	21. 48	·0924	21. 42	·01601			
20. 25	8. 5	21. 54	·0924	21. 43	·01538			
20. 27	34. 25		***	21. 46	·01581			
	***	22. 3	·0982	21. 57	·01500			
20 36	8. 0	22. 6	·0952	21. 58	·01590			
	***	22. 8	·0972	21. 59	·01570			
20. 44	14. 45		***	22. 6	·01635			
	***	22. 12	·0946	22. 9	·01620			
20. 50	6 30		***	22. 18	·01659			
	***	22. 18	·0966	22. 24	·01606			
20. 58	19. 0		***	22. 25	·01635			
	***	22. 22	·0925	22. 28	·01592			
21. 3	9. 10	22. 25	·0938	22. 29	·01627			
	***	22. 28	·0910	22. 30	·01601			
21. 11	25. 35		***	22. 32	·01650			
	***	22. 38	·0986	22. 36	·01610			
21. 17	1. 55	22. 40	·0950	22. 41	·01650			
21. 20	22. 24. 25	22. 46	·0986	22. 43	·01610			
	***		***	22. 47	·01650			
21. 30	21. 58. 0	22. 50	·0942	22. 50	·01628			
	***	22. 52	·1022	22. 54	·01653			
21. 39	22. 27. 30	22. 55	·0938	22. 56	·01598			
	***		***	22. 57	·01731			
21. 58	9. 35	22. 58	·1000	22. 58	·01600			
	***	23. 0	·0956	22. 59	·01671			
22. 12	24. 5		***	23. 6	·01642			
	***	23. 5	·0972	23. 10	·01675			
22. 15	18. 10		***	23. 16	·01654			
	***	23. 27	·0942	23. 23	·01630			
22. 21	22. 0	23. 29	·0986	23. 24	·01676			
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 17		Feb. 17		Feb. 17				
h m	° ′ ″	h m		h m		h m	°	°
22. 25	22. 12. 0	23. 30	·0938	23. 26	·01634			
	***		***	23. 27	·01655			
22. 30	14. 30	23. 36	·1012	23. 28	·01640			
	***		***	23. 29	·01676			
22. 37	10. 55	23. 37	·0942	23. 30	·01640			
	***	23. 38	·1164	23. 32	·01680			
22. 45	20. 0	23. 39	·1005	23. 34	·01612			
	***		***	23. 36	·01680			
22. 54	4. 10	23. 44	·1033	23. 39	·01603			
	***	23. 45	·0960	23. 40	·01701			
23. 0	26. 50	23. 46	·1075	23. 41	·01580			
	***	23. 47	·0967	23. 42	·01730			
23. 5	18. 50	23. 48	·1038	23. 44	·01524			
	***		***	23. 46	·01562			
23. 26	22. 27. 0	23. 52	·0945	23. 47	·01900			
	***	23. 56	·1074	23. 56	·01570			
23. 44	21. 58. 45	23. 57	·0971	23. 57	·01781			
	***	23. 58	·0995	23. 59	·01632			
23. 45	22. 37. 25	23. 59	·0952					
	***							
23. 50	18. 0							
	***							
23. 59	35. 20							
	***							
Feb. 18		Feb. 18		Feb. 18				
0. 5	22. 19. 5	0. 0	·1018	0. 4	·01680	1. 40	54 · 5	61 · 0
	***	0. 1	·0990	0. 9	·01810	3. 40	56 · 0	62 · 0
0. 12	36. 0	0. 3	·1037	0. 12	·01679	9. 40	52 · 0	58 · 0
	***	0. 5	·0944	0. 14	·01760	21. 53	42 · 0	46 · 5
0. 23	17. 0	0. 12	·1017	0. 15	·01780			
	***	0. 13	·0944	0. 20	·01680			
0. 39	28. 0	0. 15	·1006	0. 45	·01768			
	***		***	0. 47	·01750			
0. 41	17. 0	0. 18	·0943	0. 49	·01790			
	***	0. 20	·0981	0. 53	·01780			
1. 4	27. 30		***	1. 0	·01840			
	***	0. 22	·0951	1. 4	·01801			
1. 12	32. 25	0. 24	·0982	1. 6	·01821			
	***		***	1. 9	·01790			
1. 34	24. 0	0. 29	·0970	1. 12	·01820			
	***		***	1. 27	·01737			
1. 40	29. 35	0. 33	·0941	1. 29	·01808			
2. 9	32. 40	0. 38	·0962	1. 37	·01732			
2. 47	14. 30		***	2. 41	·02064			
3. 2	29. 30	0. 40	·0952	2. 44	·02035			
	***		(†)	2. 45	·02120			
3. 10	32. 40	2. 34	·1000	2. 47	·02091			
3. 23	17. 0		***	2. 50	·02155			
3. 37	33. 30	2. 42	·1074	2. 56	·02105			
3. 40	27. 0	2. 45	·1038	2. 57	·02131			
3. 43	31. 35		***	3. 2	·02011			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 18		Feb. 18		Feb. 18				
h m	° ′ ″	h m		h m		h m	°	°
3. 54	22. 28. 35	2. 50	·1104	3. 9	·02098			
	***		***	3. 18	·02080			
4. 0	33. 5	3. 9	·0997	3. 25	·02121			
	***		***	3. 44	·01961			
4. 8	27. 0	3. 22	·1125	3. 45	·01980			
	***		***	3. 52	·01932			
4. 23	34. 10	3. 26	·1050	3. 57	·01954			
	***		***	4. 15	·01850			
4. 36	21. 5	3. 46	·1122	4. 22	·02048			
4. 38	30. 50		***	4. 30	·01960			
4. 44	18. 0	3. 56	·1062	4. 37	·02138			
4. 48	35. 5	3. 57	·1078	4. 48	·01920			
4. 54	16. 0		***	4. 59	·02030			
	***	4. 27	·1020	5. 5	·01951			
5. 1	23. 0	4. 33	·1080	5. 10	·02011			
5. 7	11. 25	4. 35	·1038	5. 48	·01630			
	***		***	6. 48	·01572			
5. 20	25. 50	4. 47	·1084	7. 55	·01605			
	***		***	8. 45	·01527			
5. 27	21. 50	4. 58	·1016	9. 18	·01630			
5. 30	26. 15	5. 1	·1048	10. 35	·01542			
	***		***	11. 30	·01402			
5. 59	17. 30	5. 4	·1033	11. 42	·01423			
6. 1	22. 30		***	12. 0	·01331			
	***	5. 10	·1057	12. 14	·01356			
6. 41	19. 0		***	12. 43	·01397			
6. 56	21. 25	5. 12	·1030	13. 6	·01387			
7. 13	16. 0		***	13. 34	·01426			
7. 34	20. 20	5. 19	·1083	15. 5	·01312			
	***		***	16. 2	·01378			
8. 23	11. 35	5. 51	·0938	17. 10	·01320			
8. 41	30. 0		***	23. 58	·01371			
	***	6. 1	·0954					
9. 4	14. 30		***					
	***	6. 16	·0937					
9. 10	22. 17. 25		***					
9. 17	21. 58. 30	6. 28	·0953					
9. 31	22. 37. 35		***					
	***	7. 0	·0936					
10. 19	6. 55		***					
	***	7. 29	·0953					
10. 29	11. 0		***					
	***	8. 18	·0945					
10. 35	7. 20		***					
	***	8. 30	·0977					
10. 55	22. 10		***					
	***	9. 0	·0922					
11. 17	0. 0	9. 16	·0941					
	***	9. 24	·1021					
11. 22	22. 1. 25	9. 45	·0944					
11. 24	21. 59. 0		***					
	***	10. 0	·0954					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 18		Feb. 18						
h m	° ′ ″	h m		h m		h m	°	°
11. 54	22. 18. 25	10. 26	·1008					
12. 2	13. 0	10. 33	·0996					
12. 20	20. 35		***					
	***	10. 36	·1018					
12. 29	16. 20		***					
12. 49	22. 50	11. 4	·0964					
13. 0	17. 35		***					
13. 3	19. 50	11. 20	·0997					
13. 11	12. 55		***					
13. 16	18. 35	11. 36	·0974					
13. 21	18. 0		***					
13. 48	27. 15	12. 2	·0966					
14. 34	17. 35	12. 18	·0984					
14. 48	20. 0	12. 29	·0967					
15. 27	13. 30		***					
	***	14. 55	·0945					
16. 27	24. 15		***					
17. 2	27. 0	16. 1	·0970					
17. 13	21. 25		***					
	***	17. 9	·0963					
18. 6	32. 0	17. 32:	·0984					
	***		***					
18. 30	24. 55	18. 10	·0973					
	***		***					
18. 52	31. 50	18. 33	·0982					
	***	19. 0	·0964					
19. 3	28. 30		***					
19. 11	32. 40	19. 10	·0971					
19. 20	30. 0	19. 19	·0960					
	***		***					
19. 41	30. 25	20. 30	·0953					
20. 51	20. 25		***					
22. 28	18. 0	21. 24	·0944					
	***		***					
23. 58	24. 15	21. 34	·0961					
			***					
		23. 40	·0970					
			***					
Feb. 19		Feb. 19		Feb. 19				
2. 38	22. 36. 40	0. 28	·0946	1. 0	·01385	1. 40	47 ·8	52 ·5
	***		***	1. 6	·01385	3. 40	50 ·0	55 ·0
3. 21	26. 0	0. 30	·0966	1. 18	·01450	9. 53	49 ·0	54 ·0
	***		***	1. 51	·01300	21. 40	45 ·0	46 ·0
3. 33	31. 5	0. 48	·0942	2. 43	·01255			
3. 50	24. 0		***	2. 48	·01342			
4. 1	29. 30	1. 3	·0990	2. 53	·01261			
	***		(†)	2. 56	·01299			
4. 17	24. 5	4. 50	·0897	2. 57	·01263			
	***		***	3. 0	·01290			
4. 27	28. 5	5. 5	·0984	3. 9	·01180			
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 19		Feb. 19						
h m	° ′ ″	h m		h m		h m	°	°
4. 43	22. 17. 5	5. 35	·0950	3. 50	{ ·01050			
4. 50	23. 35		(†)		{ ·01070			
	***	7. 14	·0923	4. 28	·01018			
4. 59	20. 45		***	4. 44	·01081			
5. 5	27. 25	7. 46	·0961	4. 46	·01053			
5. 17	18. 0	7. 56	·0933	4. 49	·01080			
5. 24	20. 0		(†)	4. 54	·01063			
5. 59	1. 25	14. 11	·1126	5. 24	·01130			
6. 20	11. 30		***	5. 36	·01140			
6. 29	8. 0	14. 26	·1065	5. 45	·01203			
6. 58	19. 0	14. 38	·1126	6. 11	·01140			
7. 2	17. 5	14. 47	·1010	6. 28	·01170			
7. 11	22. 24. 25	14. 58	·1188	7. 10	·01080			
7. 27	21. 26. 30	15. 12	·1028	7. 15	·00997			
	***		***	7. 20	·01013			
7. 44	57. 50	15. 18	·1047	7. 24	·00993			
	***		***	7. 26	·01040			
8. 6	34. 35	15. 54	·0980	7. 50	·00960			
	***	16. 11	·0996	8. 8	·00790			
8. 18	47. 0		***	8. 10	·00830			
8. 31	21. 43. 10	16. 18	·1028	8. 15	·00682			
	***		***	8. 18	·00762			
8. 58	22. 3. 25	16. 30	·1007	8. 23	·00690			
9. 6	21. 55. 0		***	8. 40	·00846			
9. 11	22. 8. 35	16. 45	·1049	8. 45	·00760			
9. 20	21. 55. 15		***	8. 51	·01000			
9. 29	22. 15. 55	16. 50	·1018	9. 5	·00671			
9. 33	21. 55. 30		***	9. 9	·00744			
9. 40	22. 8. 35	16. 52	·1032	9. 12	·00652			
9. 52	21. 46. 0	17. 0	·1008	9. 17	·00780			
9. 58	22. 11. 25		***	9. 23	·00600			
10. 0	21. 53. 0	17. 5	·1027	9. 28	·00729			
10. 12	22. 9. 30	17. 11	·1007	9. 31	·00640			
10. 17	21. 50. 25		***	9. 37	·00710			
	***	17. 21	·1040	9. 41	·00386			
10. 29	55. 55		***	9. 48	·00500			
	***	17. 42	·1002	9. 52	·00320			
10. 34	21. 52. 0	17. 44	·1018	9. 59	·00560			
	***	17. 48	·1007	10. 14	·00218			
11. 1	22. 18. 50	17. 49	·1018	10. 15	·00280			
	***	17. 56	·1008	10. 18	·00050			
11. 32	21. 33. 0	17. 59	·1024	10. 39	·00356			
11. 43	56. 55		***	10. 45	·00250			
	***	18. 58	·0958	10. 58	·00376			
11. 55	50. 0		***	11. 2	·00134			
11. 59	59. 55	19. 10	·0985	11. 9	·00304			
12. 2	40. 25	19. 17	·0944	11. 15	·00100			
12. 3	48. 30		***	11. 31	·00430			
12. 12	21. 27. 30	19. 29	·1004	11. 37	·00159			
	***		***	11. 40	·00240			
12. 46	22. 46. 0	19. 47	·0960	11. 45	·00015			
	***	19. 50	·0995	11. 53	·00521			
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 19		Feb. 19		Feb. 19				
h m	° ′ ″	h m		h m		h m	°	°
13. 1	21. 59. 5	19. 58	·0983	12. 2	·00266			
	***		***	12. 9	·00590			
13. 15	21. 48. 0	20. 3	·1022	12. 13	·00555			
13. 30	22. 9. 5	20. 7	·0966	12. 16	·00690			
	***		***	12. 23	·00030			
13. 41	21. 56. 30	20. 15	·1010	12. 32	·00380			
	***	20. 18	·0945	13. 2	·00050			
14. 1	22. 13. 10		***	13. 18	·00550			
	***	20. 20	·0958	13. 25	·00565			
14. 15	0. 0		***	13. 32	·00489			
	***	20. 31	·0937	14. 15	·00945			
14. 30	22. 9. 0	20. 37	·0990	14. 17	·00920			
	***		***	14. 23	·00946			
14. 47	21. 56. 35	20. 48	·0944	14. 53	·00820			
14. 54	22. 2. 5	20. 56	·1023	15. 9	·00877			
14. 59	21. 57. 5		***	15. 21	·00796			
	***	21. 1	·1020	15. 40	·00988			
15. 9	22. 4. 35		***	15. 43	·00941			
	***	21. 13	·0927	15. 47	·01014			
15. 18	1. 15	21. 18	·0970	16. 10	·00825			
	***	21. 29	·0937	16. 14	·00850			
15. 29	11. 35	21. 30	·0958	16. 22	·00646			
15. 32	8. 35	21. 31	·0945	16. 29	·00686			
15. 40	17. 25	21. 35	·0964	16. 33	·00630			
15. 45	14. 5		***	16. 45	·00856			
	***	21. 46	·0940	17. 2	·00912			
16. 10	51. 0		***	17. 13	·00883			
16. 33	13. 30	21. 47	·0965	17. 21	·00913			
	***		***	17. 50	·00713			
16. 45	23. 5	22. 5	·0963	18. 0	·00778			
	***		***	18. 6	·00699			
16. 59	17. 0	22. 18	·0983	18. 9	·00795			
17. 27	52. 30	22. 20	·0951	18. 22	·00729			
	(†)	22. 27	·0975	18. 43	·00781			
18. 32	53. 0	22. 29	·0965	19. 31	·01070			
18. 45	37. 20	22. 31	·0980	20. 10	·01030			
	***	22. 33	·0967	21. 32	·01304			
19. 23	53. 0	22. 37	·0981		·01194			
	(†)	22. 42	·0968	22. 16	·01322			
20. 14	46. 0	22. 47	·0973	22. 20	·01280			
20. 27	49. 0	22. 50	·0961	23. 10	·01318			
	***	22. 53	·0972	23. 58	·01360			
21. 12	26. 30	23. 0	·0959					
	***		***					
22. 6	33. 35	23. 35	·0978					
	***	23. 43	·0987					
22. 16	25. 35	23. 58	·0996					
	***							
23. 35	31. 35							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 20		Feb. 20		Feb. 20				
h m	° ′ ″	h m		h m		h m	°	°
0. 51	22. 29. 0	0. 7	·0973	0. 46	·01361	1. 40	43 ·0	50 ·8
1. 3	24. 35	0. 13	·0990		***	3. 40	48 ·0	52 ·5
	***		***	1. 39	·01291	9. 40	48 ·0	53 ·0
1. 20	29. 0	0. 33	·0977	1. 43	·01335	21. 45	39 ·0	46 ·0
	***	0. 49	·1000	2. 4	·01310			
1. 42	21. 20	0. 56	·0981		***			
1. 50	26. 20	1. 2	·1000	3. 17	·01030			
	***		***	3. 37	·01058			
2. 29	17. 5	1. 16	·1016	3. 45	·01002			
	***	1. 28	·0997	3. 52	·01048			
3. 8	25. 30	1. 34	·1012	4. 7	·01001			
	***	1. 40	·0992		***			
3. 50	10. 20	1. 45	·1029	5. 18	·00970			
4. 1	23. 0		***	6. 1	·00996			
4. 12	16. 35	2. 29	·1037	6. 12	·01068			
	***	2. 37	·1008	7. 58	·00873			
4. 29	19. 10	2. 48	·1000	8. 13	·00850			
5. 5	11. 25	3. 1:	·1017	8. 18	·00853			
5. 36	17. 10	3. 19:	·0982	8. 38	·00801			
5. 42	15. 35	3. 40	·1040	14. 10:	·00898			
5. 54	17. 0	3. 42	·1011	17. 18	·01290			
	(†)	3. 56	·1052	19. 44	·01247			
6. 31	6. 0	4. 6	·1005	23. 39	·01295			
	***		***	23. 52	·01305			
7. 57	19. 20	4. 24	·1020					
8. 1	31. 40		***					
8. 19	11. 10	4. 46	·1002					
	***		***					
8. 31	27. 5	5. 18	·1006					
8. 50	15. 0	5. 28	·0991					
8. 57	18. 5	5. 33	·0997					
9. 16	10. 25	5. 42	·0984					
9. 41	14. 0	5. 52	·0993					
9. 50	12. 0		***					
10. 10	20. 45	6. 12	·0964					
10. 23	13. 0	6. 17	·1036					
10. 33	23. 30	6. 30	·1004					
10. 50	13. 30	6. 40	·1006					
11. 1	15. 30	6. 48	·0988					
11. 11	14. 40	6. 52	·1000					
11. 20	20. 25	7. 1	·0986					
11. 48	15. 20		***					
12. 13	23. 15	7. 44	·0986					
12. 42	18. 0		***					
13. 32	27. 30	7. 52	·1020					
14. 14	16. 20	8. 3	·0986					
14. 49	19. 40	8. 10	·0982					
15. 7	17. 35	8. 19	·1022					
	***		***					
16. 30	28. 10	8. 35	·0978					
17. 57	24. 30		***					
19. 12	28. 10	8. 50	·1006					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 20		Feb. 20						
h m	° ′ ″	h m		h m		h m	°	°
19. 50	22. 23. 15	9. 0	·0989					
20. 28	24. 20		***					
20. 59	19. 50	9. 26	·0996					
	***		***					
23. 33	24. 55	10. 0	·0969					
23. 39	21. 0		***					
23. 41	27. 0	10. 13	·0979					
23. 48	24. 10	10. 29	·1002					
		10. 43	·0969					
		10. 59	·0987					
			***					
		11. 13	·0983					
		11. 29	·0969					
		11. 52	·0994					
			***					
		13. 6	·0986					
		13. 15	·1008					
			***					
		14. 5	·0985					
		14. 20	·1001					
			***					
		15. 32	·0982					
			***					
		18. 2	·1004					
		18. 51	·0995					
		19. 24	·0999					
			***					
		23. 0	·0976					
		23. 38	·0979					
		23. 39	·0960					
		23. 40	·0978					
			***					
		23. 52	·0970					
Feb. 21		Feb. 21		Feb. 21				
0. 27	22. 35. 30	0. 12	·0989	0. 45	·01302	1. 40	44 ·0	48 ·8
	***		***	1. 45	·01295	3. 40	48 ·0	52 ·5
0. 58	28. 35	1. 43	·1024	3. 47	·01057	9. 40	49 ·2	54 ·5
1. 2	33. 0		***	4. 0	·01080	22. 55	46 ·0	52 ·0
1. 10	27. 25	2. 14	·0976	4. 10	·01062			
1. 13	29. 55	2. 27	·1003	4. 17	·01125			
	***	2. 29	·0998	4. 35	·01130			
1. 28	27. 35	2. 37	·1006	5. 12	·01027			
	***	2. 46	·0979	5. 22	·01049			
1. 45	36. 5	2. 50	·0992	5. 40	·01002			
	***	2. 58	·0980	6. 0	·01049			
2. 13	29. 40	3. 2	·0994	9. 12	·00872			
2. 33	37. 0	3. 27	·1029	9. 37	·00801			
2. 48	31. 0	3. 28	·1016	9. 49	·00813			
	***	3. 32	·1028	9. 59	·00760			
3. 6	35. 20	3. 43	·1029	10. 3	·00896			
3. 13	24. 35	3. 47	·1014	10. 12	·00660			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 21		Feb. 21		Feb. 21				
h m	° ′ ″	h m		h m		h m	°	°
3. 46	22. 34. 5	3. 50	·1025	10. 20	·00730			
	***		***	10. 32	·00686			
4. 3	22. 0	3. 55	·1031	10. 40	·00722			
	***		***	11. 10	·00680			
4. 15	25. 10	4. 10	·0994	13. 0	·00745			
4. 27	16. 25		***	13. 42	·00573			
4. 32	27. 50	4. 27	·1038	14. 21	·00674			
4. 39	15. 30	4. 32	·1010	14. 42	·00665			
4. 53	27. 10		***	15. 31	·00761			
	***	4. 41	·1040	23. 17	·01327			
5. 19	17. 30		***					
5. 40	26. 0	5. 7	·0984					
6. 0	10. 10		***					
	***	5. 24	·1028					
6. 53	21. 0	5. 44	·0972					
	***	5. 46	·0981					
7. 12	17. 0	5. 50	·0969					
	***	6. 2	·1010					
7. 27	20. 0		***					
	***	6. 45	·0967					
7. 57	11. 5		***					
	***	7. 4	·0994					
8. 24	17. 25	7. 14	·0986					
8. 49	6. 5	7. 21	·0994					
9. 4	10. 30	7. 47	·0981					
9. 14	6. 20	8. 0	·0993					
	***	8. 5	·0986					
9. 35	20. 15	8. 27	·1000					
9. 50	9. 0	8. 43	·0981					
9. 57	22. 15. 30	8. 48	·0996					
10. 3	21. 32. 0	9. 5	·0977					
10. 10	22. 14. 10	9. 14	·0981					
10. 21	21. 44. 0	9. 24	·0955					
10. 46	22. 22. 0	9. 34	·0973					
11. 12	5. 0	9. 45	·0947					
	***	9. 46	·0960					
11. 33	7. 25	9. 47	·0947					
11. 40	4. 25	9. 54	·0965					
12. 1	12. 0	10. 0	·0932					
	***	10. 8	·1044					
12. 31	10. 0	10. 16	·0941					
12. 44	3. 30	10. 30	·1009					
13. 0	7. 15	10. 37	·0996					
13. 3	5. 0	10. 42	·1013					
13. 11	14. 15	11. 12	·0935					
13. 20	6. 25	11. 17	·0946					
	***		***					
14. 13	21. 5	12. 21	·0951					
	***		***					
15. 0	13. 30	12. 42	·0939					
15. 31	27. 20	12. 58	·0961					
15. 46	23. 0	13. 17	·0940					
	***		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 21		Feb. 21						
h m	° ′ ″	h m		h m		h m	c	c
18. 43	22. 27. 10	13. 35	·0943					
	″		″					
19. 55	21. 30	13. 54	·0982					
	″		″					
23. 28	23. 5	15. 26	·0983					
			″					
		15. 36	·0973					
			″					
		17. 11	·0995					
			″					
		18. 35	·0988					
			″					
		19. 52	·1000					
		20. 3	·1010					
		20. 8	·1003					
		20. 11	·1014					
		20. 15	·1004					
			″					
		21. 10	·0996					
			″					
		22. 0	·0981					
			″					
		23. 19	·0973					
		23. 30	·0964					
			″					
		23. 42	·0971					
			″					
		23. 59	·0982					
Feb. 22		Feb. 22		Feb. 22				
0. 0	22. 25. 5	0. 11	·0986	0. 0	·01372	7. 35	49 ·0	55 ·0
	″		″	2. 40	·01491	21. 40	43 ·0	48 ·0
2. 0	28. 55	1. 9	·0990	11. 0	·01026			
			″					
2. 27	22. 0			16. 30	·01400			
4. 11	26. 0	2. 13	·0969	23. 0	·01340			
	″		″					
4. 44	21. 5	2. 47	·1008					
	″		″					
9. 58	21. 0	4. 26	·0986					
			″					
10. 19	14. 55							
11. 7	20. 25	4. 39	·1004					
			″					
11. 20	19. 20							
13. 30	24. 5	5. 10	·0985					
19. 30	22. 0	5. 19	·1000					
			″					
21. 54	18. 0							
23. 51	24. 5	5. 29	·0987					
		5. 32	·0995					
			″					
		10. 7	·1000					
			″					
		10. 47	·1010					
		11. 17	·1000					
			″					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Feb. 22						
h m	° ′ ″	h m		h m		h m	c	c
		19. 13	·1011					
			″					
		22. 2	·1003					
		22. 50	·0995					
		23. 21	·0983					
		23. 59	·0987					
Feb. 23		Feb. 23		Feb. 23				
1. 0	22. 25 45	0. 13	·0986	1. 21	·01278	1. 40	46 ·5	52 ·0
1. 32	35. 30	1. 7	·0989	1. 33	·01286	3. 40	52 ·0	57 ·5
2. 29	26. 0	1. 29	·1000	1. 42	·01247	9. 45	48 ·0	54 ·8
	″	1. 34	·1023	3. 32	·01085	21. 40	43 ·0	48 ·5
3. 1	31. 55	1. 40	·1000	3. 45	·01079			
3. 7	29. 50	1. 41	·1008	4. 14	·00984			
3. 13	32. 0	1. 58	·0991		·01047			
3. 36	24. 25		″	5. 11	·00917			
4. 3	22. 5	2. 27	·0985		·00946			
4. 42	28. 5		″	5. 46	·00913			
5. 36	22. 30	3. 2	·1008	6. 30	·01000			
	″		″	10. 28:	·00873			
6. 30	3 45	3. 30	·0980	18. 1	·01370			
6. 40	7. 25		″	21. 51	·01299			
6. 46	6. 25	4. 3	·0999		·00911			
8. 0	23. 55	4. 40	·1004	23. 45	·00983			
11. 2	19. 20	5. 3:	·0991					
12. 45	23. 40	5. 30	·0997					
	″		″					
14. 0	20. 30	5. 59	·0985					
	″	6. 31	·1023					
16. 20	26. 40	6. 42	·1010					
18. 0	22. 50		″					
21. 4	19. 15	7. 57	·0994					
23. 52	24. 30	9. 1	·1000					
		9. 47	·1002					
		10. 45	·1005					
		11. 13	·1014					
		11. 45	·1000					
			″					
		12. 25	·1008					
		12. 37	·1020					
			″					
		14. 33	·1002					
			″					
		16. 44	·1004					
			″					
		19. 28	·1016					
			″					
		22. 9	·0997					
		23. 28	·0987					
		23. 57	·0992					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Readings of Thermometers. Göttingen Mean Solar Time.	Of H. F. Magnet.	Of V. F. Magnet.
Feb. 24		Feb. 24		Feb. 24				
h m	° ′ ″	h m		h m		h m	°	°
1. 0	22. 24. 35	0. 8	·0991	1. 10	·00931	1. 40	48 ·0	52 ·5
1. 59	27. 15	0. 10	·0999	2. 29	·00821	3. 40	51 ·0	53 ·0
	***	0. 13	·0991	5. 33	·00862	9. 40	49 ·5	55 ·5
6. 0	20. 5	0. 16	·0998	7. 5	{ ·00913	21. 45	45 ·0	50 ·5
9. 22	20. 55	0. 22	·0992		{ ·01051			
20. 30	20. 0	1. 0	·0985	9. 2	·00929			
21. 26	17. 0	2. 1	·0993	12. 30:	·00990			
23. 57	20. 5	2. 47	·0988	17. 30	·01361			
			***	22. 0	·01320			
		9. 20	·1003	23. 30	·01346			
		19. 29	·1018					
		20. 33	·1016					
		23. 59	·0993					
Feb. 25		Feb. 25		Feb. 25				
1. 0	22. 23. 20	0. 1	·0993	1. 30	·01297	1. 40	48 ·0	52 ·3
7. 30	20. 0	1. 53	·0992	5. 20	·00866	3. 40	52 ·0	55 ·5
9. 28	21. 45	3. 22	·1000	6. 41	·00921	9. 40	50 ·0	55 ·8
10. 8	20. 5	6. 40	·1000	8. 24	{ ·00880	21. 40	45 ·0	50 ·5
18. 0	21. 10		***		{ ·00978			
	***	20. 8	·1024	15. 10	·01373			
19. 34	26. 0	20. 14	·1018	21. 50	·01286			
20. 17	21. 0	21. 15	·1023					
20. 46	22. 35	22. 31	·1000					
21. 17	20. 20		***					
	***	23. 14	·0994					
23. 36	26. 50	23. 32	·0999					
		23. 59	·0994					
Feb. 26		Feb. 26		Feb. 26				
1. 0	22. 24. 10	0. 2	·0995	0. 0	·01326	1. 40	48 ·0	53 ·3
	***	1. 27	·1001	1. 30	·01240	3. 40	51 ·0	56 ·5
2. 28	28. 20	1. 43	·0995	5. 3	·00876	9. 40	51 ·0	57 ·0
2. 44	26. 10	2. 30:	·1000	6. 51	·00973	21. 45	45 ·5	50 ·8
	***	2. 45	·0993	12. 0:	·00912			
3. 11	28. 10		***	18. 42	·01403			
	---	3. 9	·1000	22. 4	·01345			
3. 35	25. 20	3. 22	·0991					
	***	3. 45	·0996					
3. 50	26. 40	4. 2	·0988					
	***		***					
6. 0	22. 20	4. 35	·0989					
6. 49	19. 25	4. 40	·1003					
7. 56	25. 20	4. 45	·0985					
8. 16	23. 25		***					
8. 39	25. 20	6. 0	·1006					
9. 0	22. 10	6. 42	·0982					
11. 0	20. 35	7. 7	·0993					
11. 30	14. 35	8. 24	·1000					
12. 2	20. 40	8. 47	·0992					
14. 42	22. 0	9. 33	·1002					
15. 7	20. 5	10. 10	·0996					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Readings of Thermometers. Göttingen Mean Solar Time.	Of H. F. Magnet.	Of V. F. Magnet.
Feb. 26		Feb. 26						
h m	° ′ ″	h m		h m		h m	°	°
21. 16	22. 21. 0	11. 32	·1002					
21. 33	18. 20	11. 37	·1005					
	---	12. 2	·0998					
23. 13	20. 15	18. 23	·1012					
23. 57	23. 30	23. 6	·1001					
		23. 13	·1004					
		23. 22	·1002					
		23. 37	·1005					
Feb. 27		Feb. 27		Feb. 27				
1. 30	22. 24. 30	1. 30	·1002	0. 10	·01372	1. 40	48 ·0	52 ·5
3. 20	23. 35		---	1. 30	·01340	3. 40	50 ·0	53 ·5
3. 28	22. 0	3. 10	·1007	6. 0	·00890	9. 40	51 ·5	56 ·5
3. 40	25. 50	3. 25	·0998	7. 48	·00970	21. 47	45 ·5	51 ·5
3. 52	24. 0	3. 42	·1014	9. 6	·00933			
	---	3. 50	·1006	9. 17	·00970			
5. 12	27. 10		---	10. 33	·00920			
6. 21	24. 0	4. 32	·1004	11. 46:	·01039			
6. 32	26. 5	4. 33	·1015	17. 30	·01345			
6. 57	23. 10	4. 40	·0999	23. 48	·01300			
7. 6	26. 20		---					
8. 1	20. 5	5. 10	·0998					
8. 30	22. 50	5. 14	·1020					
8. 41	20. 5		---					
9. 0	22. 23. 5	5. 41	·1022					
9. 15	21. 54. 45	6. 8	·0996					
	---		---					
10. 22	22. 18. 55	6. 52	·0987					
10. 30	16. 15	7. 16	·0993					
10. 58	19. 50		---					
11. 27	11. 0	7. 30	·1009					
	---	7. 36	·0996					
12. 10	11. 40	7. 42	·1012					
12. 30	17. 0		---					
13. 0	14. 10	8. 37	·0992					
	---	8. 47	·1000					
13. 45	15. 5		---					
	---	9. 10	·0956					
14. 37	20. 10		---					
	---	9. 30	·1006					
15. 13	15. 55		---					
	---	9. 44	·0984					
16. 15	24. 20	9. 45	·1006					
	---	9. 55	·0984					
17. 40	14. 30	10. 0	·1000					
18. 29	20. 45		---					
18. 48	18. 40	10. 28	·0972					
	---		***					
19. 10	26. 10	11. 26	·0987					
	***		---					
19. 26	20. 35	11. 37	·0986					
	***	11. 55	·1008					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 27		Feb. 27						
h m	° ′ ″	h m		h m		h m	°	°
19. 36	22. 20. 30	11. 59	·1006					
	***		***					
20. 42	21. 0	12. 9	·1002					
20. 51	24. 25		***					
	***	12. 54	·0976					
22. 43	21. 30	13. 22	·0985					
23. 0	27. 0	13. 42	·0981					
23. 13	23. 5	14. 1	·0993					
23. 27	25. 20		***					
	***	15. 3	·0979					
23. 46	24. 55	15. 21	·0992					
			***					
		17. 44	·0999					
			***					
		18. 33	·0987					
			***					
		19. 9:	·1007					
		19. 37	·1007					
		19. 56	·1007					
		20. 5	·1003					
		20. 36	·1000					
		20. 45	·1008					
			***					
		22. 44	·0989					
		22. 58	·1004					
		23. 12	·0987					
		23. 55	·0979					
Feb. 28		Feb. 28		Feb. 28				
1. 10	22. 27. 0	1. 3	·0996	1. 30	·01190	1. 40	49 ·0	53 ·5
2. 0	24. 10		***	4. 22	·00930	3. 40	53 ·0	57 ·0
	***	3. 5	·1000	7. 20	·00936	9. 40	50 ·5	57 ·0
3. 17	27. 50		***	11. 12:	·00907	23. 12	44 ·0	47 ·8
	***	3 10	·1006	13. 24	·01030			
4. 5	20. 20		***	13. 50	·00976			
4. 30	20. 10	3. 55	·0978	15. 55	·01315			
5. 0	23. 30	4. 20	·1005	20. 0	·01347			
6. 57	21. 10		***	21. 0	·01320			
7. 14	18. 5	4. 40	·1004		·01192			
7. 28	20. 10		***	23. 12	·01280			
7. 40	17. 25	4. 55	·0990					
	***		***					
8. 16	19. 0	7. 30	·1002					
8. 33	15. 10		***					
9. 10	21. 15	7. 54	·1015					
10. 28	21. 25	8. 2	·1006					
11. 0	18. 30		***					
11. 21	26. 25	8. 27	·1007					
12. 37	18. 10		***					
13. 31	33. 0	8. 48	·1022					
14. 57	11. 0	9. 12	·1004					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 28		Feb. 28						
h m	° ′ ″	h m		h m		h m	°	°
16. 44	22. 23. 0	11. 8	·1018					
17. 19	18. 25	11. 23:	·1004					
18. 22	26. 10		***					
	***	11. 51	·1022					
22. 12	22. 0	12. 10	·1006					
	***		***					
22. 43	30. 0	12. 42	·1010					
	***	12. 56	·1000					
23. 1	24. 5	13. 27	·1020					
		13. 58	·0996					
			***					
		14. 34	·1014					
			***					
		17. 23	·1012					
			***					
		17. 58	·1000					
			***					
		18. 34	·1012					
			***					
		18. 42	·1005					
			***					
		20. 49	·1014					
			***					
		22. 8	·0978					
			***					
		22. 13	·0992					
			***					
		22. 27	·0977					
			***					
		22. 30	·0992					
			***					
		22. 32	·0982					
			***					
		22. 39	·0995					
			***					
		22. 45	·0976					
			***					
		23. 0	·1000					
Feb. 29		Feb. 29		Feb. 29				
0. 0	22. 25. 20	0. 24	·1012	0. 18	·01282	7. 13	45 ·3	51 ·6
0. 20	29. 5	0. 46	·1000	7. 27	·01270	21. 40	39 ·0	46 ·0
1. 0	25. 0		***	9. 15	·01129			
1. 28	28. 0	2. 38:	·1017	12. 30	·01120			
1. 54	24. 30		***	13. 35	·01079			
	***	3. 38	·1010	15. 27	·01250			
2. 35	27. 50	3. 56	·1022	17. 53	·01211			
	***		***	17. 59	·01160			
3. 42	24. 0	5. 13	·0992	18. 53	·01240			
3. 59	28. 0		***	21. 58	·01234			
	***	5. 36	·1006	22. 11	·01181			
5. 22	26. 35	5. 47	·0993	23. 47	·01158			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 29		Feb. 29						
h m	° ′ ″	h m		h m		h m	°	°
6. 2	22. 11. 45	6. 6	·1020					
6. 22	18. 0	6. 32	·0994					
6. 37	15. 10							
7. 9	17. 25	6. 50	·1001					
7. 16	11. 50							
7. 26	12. 0	7. 15	·0985					
7. 40	24. 0	7. 26	·1058					
7. 54	17. 30							
8. 6	21. 50	7. 45	·1012					
8. 20	17. 35							
8. 46	21. 20	7. 55	·1022					
9. 2	19. 30							
9. 27	21. 35	8. 12	·1005					
10. 13	19. 25	8. 35	·1012					
10. 25	21. 0	8. 52	·1007					
10. 40	19. 10	9. 8	·1014					
		9. 50	·1005					
12. 34	23. 10	10. 10	·1013					
13. 8	31. 15							
13. 37	21. 0	11. 30	·1007					
14. 16	15. 35	11. 58	·1013					
15. 47	24. 45	12. 30	·1002					
15. 59	23. 30							
16. 30	28. 10	13. 8	·1018					
18. 22	21. 10							
19. 3	24. 15	13. 35	·1015					
21. 2	21. 0	14. 2	·0996					
22. 57	25. 0	14. 35:	·1010					
23. 6	28. 25	15. 40	·1015					
23. 13	26. 50	16. 25	·1006					
23. 56	29. 0	17. 46	·1028					
		18. 32	·1016					
		20. 45	·1018					
		22. 23:	·1000					
		23. 30	·1005					
		23. 59	·1000					
Mar. 1		Mar. 1		Mar. 1				
1. 30	22. 28. 20	0. 33	·0994	1. 30	·01029	1. 40	45 ·0	50 ·5
				2. 46	·00802	3. 40	48 ·0	53 ·5
2. 34	28. 50	1. 18	·1012	6. 0	·00815	9. 40	49 ·5	56 ·0
3. 1	24. 0			7. 30	·00889	21. 40	48 ·0	52 ·0
6. 17	21. 0	2. 30	·1002	11. 45:	·00820			
7. 2	8. 45			18. 0	·01010			
8. 26	22. 35	3. 25:	·1018	23. 44	{ ·01362			
9. 2	15. 35				{ ·01319			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 1		Mar. 1						
h m	° ′ ″	h m		h m		h m	°	°
9. 14	22. 16. 40	6. 40	·1000					
9. 23	12. 15	7. 4	·1016					
9. 32	11. 35							
10. 40	22. 10	9. 0	·1001					
12. 12	24. 0	9. 10	·1007					
		9. 20	·1004					
15. 33	18. 0	9. 32	·1018					
15. 59	14. 55							
16. 30	18. 10	11. 10	·1000					
		11. 28	·1000					
17. 10	16. 25							
		13. 52	·1012					
22. 2	21. 25	14. 30:	·1003					
23. 50	28. 0							
		15. 26:	·1018					
		17. 30	·1008					
		18. 35	·1016					
		19. 15:	·1008					
		20. 45	·1014					
		22. 0:	·1000					
		23. 0	·1000					
		23. 59	·0991					
Mar. 2		Mar. 2		Mar. 2				
1. 30	22. 28. 0	0. 30	·0986	0. 30	·01342	1. 40	49 ·5	54 ·4
6. 30	20. 30	1. 0	·0994	2. 0	·01270	3. 40	53 ·0	58 ·8
6. 47	18. 30	1. 40	·0997	5. 9	·00883	9. 22	52 ·0	57 ·0
9. 0	23. 55	2. 0:	·0991	6. 45	·00910	21. 40	41 ·8	47 ·0
15. 0	23. 20	2. 30	·1000	6. 53:	·00985			
16. 30	20. 45	6. 40	·1000	14. 12	·01392			
20. 0	23. 35	9. 10	·1010	18. 30	·01278			
21. 6	19. 0	9. 22	·1002	23. 34	·01215			
23. 40	22. 25	12. 0	·1002					
		17. 4	·1018					
		23. 40	·1005					
Mar. 3		Mar. 3		Mar. 3				
0. 52	22. 26. 0	0. 30	·1002	1. 0	·01185	1. 40	45 ·0	48 ·8
3. 15	24. 5	3. 23	·1008	3. 15	·00884	3. 40	51 ·0	54 ·0
	(†)		(†)		(†)	9. 40	50 ·5	55 ·5
6. 30	21. 0	9. 28	·1004	9. 30:	·00788	21. 40	41 ·0	46 ·0
7. 12	20. 5	10. 12	·1010	15. 48	·01320			
8. 32	21. 0	10. 30	·1006	22. 0	·01220			
8. 52	23. 50							
9. 40	21. 45	16. 0	·1012					
12. 0	24. 35	20. 30	·1025					
15. 30	21. 0	22. 30	·1004					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 3		Mar. 3						
h m	° ′ ″	h m		h m		h m	°	°
16. 6	22. 23. 15	23. 50	·1004					
17. 26	20. 25							
19. 44	22. 30							
20. 57	18. 0							
21. 18	20. 20							
23. 47	24. 10							
Mar. 4		Mar. 4		Mar. 4				
1. 0	22. 25. 30	0. 30	·1005	0. 30	·01160	1. 40	47 ·0	51 ·8
1. 44	28. 0		***	1. 30	·01055	3. 40	51 ·0	55 ·0
3. 0	24. 5	2. 56	·1000	2. 48	·00808	9. 40	52 ·0	56 ·4
4. 40	21. 25	3. 15	·1007	4. 15	·00891	21. 40	39 ·0	44 ·5
6. 7	20. 25		***	6. 2	·00859			
8. 1	24. 35	5. 10	·1002	7. 20	·00910			
8. 24	15. 20		***	9. 35:	·00847			
8. 58	15. 10	6. 19	·1012	14. 41	·01330			
10. 29	22. 30		***	22. 0	·01140			
10. 50	18. 0	7. 15	·1002	23. 50	·01190			
12. 35	29. 10	7. 54	·1007					
13. 17	19. 0	8. 15	·1000					
14. 8	23. 45	8. 35:	·1014					
14. 42	21. 0		***					
15. 38	24. 40	9. 0	·1012					
16. 8	21. 10	9. 28	·0998					
20. 0	22. 5	10. 10	·0998					
21. 21	17. 0	10. 24	·1005					
23. 47	24. 10	10. 38	·0997					
		11. 0:	·1006					
		11. 25	·0999					
		12. 23	·1001					
		12. 35:	·1018					
		12. 58	·1009					
			***					
		15. 17	·1014					
		15. 40	·1024					
			***					
		20. 40	·1020					
			***					
		23. 15	·1003					
		23. 59	·1005					
Mar. 5		Mar. 5		Mar. 5				
1. 15	22. 27. 0	0. 0	·1005	1. 30	·01126	1. 40	44 ·2	48 ·3
1. 38	25. 55	1. 9	·1007	3. 23	·00788	3. 40	48 ·6	53 ·0
	***	2. 18	·1014	7. 15	·00885	9. 40	51 ·0	56 ·0
4. 30	26. 25		***	9. 47:	·00840	21. 40	40 ·0	45 ·3
5. 46	22. 30	3. 41	·1010	15. 40	·01280			
6. 30	26. 10	4. 0	·1018	22. 0	·01140			
8. 28	22. 10		***	23. 45	·01180			
8. 50	28. 5	4. 55	·1009					
9. 40	21. 30		***					
9. 59	24. 30	7. 42	·1005					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 5		Mar. 5						
h m	° ′ ″	h m		h m		h m	°	°
10. 27	22. 20. 0	8. 40	·1015					
10. 36	21. 30	9. 0	·0998					
10. 54	19. 0		***					
		9. 55	·1009					
11. 42	24. 5	10. 18	·0993					
	***	10. 27	·0999					
13. 17	20. 35	10. 39	·0990					
	***	11. 0	·1005					
14. 3	24. 0	11. 17:	·1001					
	***		***					
15. 24	18. 55	15. 0	·1028					
	***	15. 35:	·1023					
16. 53	22. 0	17. 0	·1034					
	***		***					
17. 9	18. 20	17. 25	·1028					
	***	18. 30	·1036					
17. 45	21. 30	19. 45:	·1020					
	***	20. 30	·1022					
18. 23	18. 10		***					
	***	21. 55	·1007					
19. 21	22. 20		***					
	***	22. 41	·1006					
21. 42	18. 0		***					
23. 52	27. 0	23. 40	·0993					
Mar. 6		Mar. 6		Mar. 6				
1. 30	22. 27. 10	0. 30	·1000	0. 30	·01165	1. 40	45 ·5	51 ·0
	***	1. 10	·1006	2. 0	·01001	3. 40	48 ·0	54 ·0
3. 0	32. 15	1. 32	·1002	3. 7	·00795	9. 40	51 ·0	55 ·5
4. 48	26. 30	2. 56	·1015	4. 32	·00870	22. 40	41 ·0	47 ·0
5. 1	28. 35	3. 7	·1006		·01003			
5. 27	20. 0	3. 40:	·1024	5. 20	·00928			
5. 50	15. 35		***	7. 5	·00980			
	***	4. 42	·1004	8. 51	·00901			
6. 38	24. 0	4. 58	·1009	9. 9:	·00960			
	***		***	14. 30	·01301			
7. 0	17. 25	5. 24	·0992	18. 30	·01210			
	***	5. 30	·0998	20. 10	·01235			
7. 37	16. 10	5. 45	·0995	22. 43	·01177			
	***	6. 0	·1008					
9. 8	19. 50		***					
9. 33	5. 25	6. 47	·0992					
	***		***					
9. 58	15. 0	8. 0	·1003					
	***	8. 10	·0988					
10. 15	12. 0		***					
	***	9. 30	·1008					
12. 0	23. 0	9. 40	·1036					
	***		***					
14. 9	21. 30	10. 28	·0995					
	***		***					
14. 33	28. 10	11. 10	·1007					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 6		Mar. 6						
h m	° ′ ″	h m		h m		h m	°	°
15. 7	22. 21. 0	13. 48	·1018					
	***	14. 18	·1014					
16. 11	16. 5	14. 38:	·1026					
	***	17. 4	·1008					
17. 30	23. 50	19. 0:	·1027					
	***	19. 52:	·1018					
18. 40	20. 0	20. 25:	·1022					
	***	22. 50	·1004					
19. 13	21. 20	23. 28	·0992					
	***							
20. 3	20. 5							
	***							
20. 57	21. 30							
	***							
21. 32	18. 0							
	***							
22. 51	24. 0							
Mar. 7		Mar. 7		Mar. 7				
0. 0	22. 28. 20	0. 0	·1000	1. 0	·01205	7. 45	50 ·0	58 ·0
0. 30	31. 10	0. 14	·1004	3. 50	·00807	21. 40	45 ·0	50 ·7
1. 19	28. 30	1. 16	·0990	7. 15	·00980			
2. 40	31. 0	2. 17	·1012	10. 30:	·00798			
4. 29	27. 0	4. 43	·1009	16. 38	·01310			
4. 43	22. 25		***	18. 15	·01267			
4. 59	15. 30	4. 51	·1012	22. 30	·01354			
	***	5. 0	·1025					
6. 11	22. 30		***					
	***	6. 58	·1000					
7. 19	10. 0	7. 14	·0982					
	***	7. 32	·0999					
8. 0	15. 0	7. 47	·0992					
8. 29	9. 50	8. 24	·0995					
8. 52	21. 0	8. 43:	·1016					
9. 16	1. 5	9. 9:	·0974					
10. 0	16. 0	9. 28:	·1016					
	***		***					
11. 8	17. 20	9. 49	·0999					
	***		***					
11. 30	10. 25	11. 24	·1000					
	***	11. 39:	·1012					
13. 50	9. 0	13. 7	·0995					
	***	14. 30	·1014					
14. 40	12. 45	16. 17	·1014					
	***	16. 57:	·1033					
15. 12	5. 0		***					
	***	18. 28	·1017					
16. 2	6. 5	19. 35	·1018					
16. 50	13. 35	21. 13	·0988					
17. 16	10. 55	22. 16	·0996					
	***	23. 20	·0983					
18. 30	20. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 7								
h m	° ′ ″	h m		h m		h m	°	°
19. 40	22. 25. 20							
	***							
20. 45	22. 35							
	***							
22. 0	27. 20							
22. 45	25. 15							
23. 48	30. 0							
Mar. 8		Mar. 8		Mar. 8				
0. 30	22. 30. 0	0. 57	·0993	1. 0	·01300	1. 40	49 ·0	53 ·4
0. 59	27. 25	1. 28:	·1006	4. 18	·00920	3. 40	52 ·0	56 ·3
2. 0	30. 30	2. 13	·0993	7. 37	·00922	9. 40	54 ·0	57 ·8
2. 13	28. 0	3. 8	·1005	7. 44:	·00980	21. 40	47 ·0	53 ·0
5. 0	20. 40	3. 22	·0995	17. 0	·01420			
7. 0:	19. 20		***	18. 40	·01360			
	***	11. 24	·1017	20. 0	·01393			
16. 18	21. 55	16. 43	·1016	22. 20	·01340			
	***	17. 20:	·1037	23. 30	·01395			
16. 56	29. 35	18. 7	·1023					
	***	18. 30	·1025					
17. 45	18. 0	18. 43	·1016					
	***	21. 21	·1009					
18. 22	21. 5	22. 47	·0994					
18. 40	20. 30	23. 55	·0995					
19. 13	22. 30							
	***							
21. 57	16. 20							
	***							
23. 50	23. 0							
Mar. 9		Mar. 9		Mar. 9				
0. 40	22. 26. 15	1. 30	·1000	1. 30	·01304	1. 40	50 ·8	55 ·4
1. 34	30. 0		***	4. 15	·00946	3. 40	54 ·0	58 ·4
	***	4. 0	·1018	5. 57	·00944	9. 40	57 ·0	62 ·0
3. 0	28. 35		***	7. 30	·01050	21. 46	47 ·8	53 ·5
	***	4. 30	·1005	7. 47	·01025			
4. 6	30. 35		***	7. 55	·01130			
	***	5. 5	·1011	10. 0:	·01045			
6. 33	22. 0		***	15. 8	·01439			
	***	5. 28	·1004	18. 0	·01408			
7. 0	23. 55		***	20. 0	·01445			
7. 32	18. 20	5. 40:	·1008	23. 30	·01380			
7. 45	21. 0	5. 55	·1000					
8. 3	11. 0	6. 24	·1021					
	***		***					
8. 47	18. 5	7. 15	·1000					
9. 36	10. 35		***					
	***	7. 34	·1008					
11. 10	18. 5	7. 53	·0983					
	***	8. 8	·1014					
11. 33	16. 10		***					
	***	8. 46	·1002					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 9		Mar. 9						
h m	° ′ ″	h m		h m		h m	°	°
12. 57	22. 22. 40 ***	9. 35	·1019 ***					
14. 12	10. 35 ***	10. 11	·1001 ***					
16. 0	21. 5 ***	11. 5	·1012 ***					
16. 45	20. 15 ***	11. 40	·1001 ***					
17. 36	23. 5 ***	12. 32	·1008					
		12. 46	·1040 ***					
19. 37	20. 25							
20. 2	17. 25 ***	14. 35	·0998					
		16. 0	·1018					
21. 3	21. 0 ***	16. 16	·1010 ***					
22. 17	18. 30 ***	20. 8	·1014 ***					
23. 40	27. 50 ***	23. 46	·1006 ***					
23. 57	27. 0 ***							
Mar. 10		Mar. 10		Mar. 10				
0. 30	22. 25. 30	0. 28	·0974 ***	1. 0	·01370	1. 40	49 ·8	54 ·5
1. 14	30. 5 ***			4. 30:	·01280	3. 40	51 ·8	56 ·4
		2. 34	·0999 ***	10. 0:	·00829	9. 40	53 ·0	58 ·0
1. 44	26. 0 ***			17. 20	·01380	21. 40	47 ·3	52 ·8
		5. 27	·1005 ***	19. 22	·01400			
2. 40	29. 0 ***				·01311			
		5. 50	·0996	22. 15	·01317			
5. 29	22. 5	6. 12	·1010 ***					
6. 8	12. 5							
7. 28	20. 5	7. 50	·1011					
7. 56	15. 20	8. 4	·1024					
8. 15	20. 20	8. 35:	·1007					
8. 57	10. 45	9. 4	·1018 ***					
10. 0	19. 0 ***							
		10. 0	·1009 ***					
11. 0	17. 50 ***							
		12. 40	·1013					
11. 20	20. 5 ***	13. 13	·1020					
		13. 32	·1037					
12. 0	16. 30 ***	14. 28	·1014					
		17. 30	·1022 ***					
12. 45	18. 5 ***							
		20. 4	·1023 ***					
13. 28	13. 0 ***							
		22. 35	·1001 ***					
13. 39	14. 10 ***							
		23. 59	·1001 ***					
13. 57	12. 25 ***							

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 10								
h m	° ′ ″	h m		h m		h	°	°
15. 0	22. 20. 20 ***							
19. 0	20. 35 ***							
21. 44	17. 15 ***							
23. 50	23. 0							
Mar. 11		Mar. 11		Mar. 11				
1. 8	22. 27. 35	3. 42	·1004	0. 10	·01345	1. 40	49 ·2	53 ·4
3. 10	29. 35	6. 37	·1020	1. 30:	·01322	3. 40	51 ·0	55 ·0
6. 41	22. 15 ***	7. 2	·1015 ***	10. 0:	·00768	9. 40	51 ·0	56 ·0
				17. 0	·01149	21. 40	47 ·0	52 ·8
16. 0	22. 5 ***	12. 43	·1030	20. 0	·01380			
		13. 0	·1024 ***	21. 15	·01332			
16. 32	25. 30 ***				·01242			
		16. 24	·1026	23. 30	·01315			
16. 59	23. 30 ***	16. 36	·1034 ***	23. 59	·01298			
17. 30	25. 35	20. 55	·1030 ***					
17. 52	22. 35							
18. 10	24. 35 ***	22. 28	·1018					
		22. 34	·1020					
19. 0	20. 5 ***	22. 39	·1014					
		22. 41	·1018					
21. 10	17. 5 ***	22. 50	·1006 ***					
23. 58	30. 0	23. 59	·1000					
Mar. 12		Mar. 12		Mar. 12				
0. 47	22. 29. 5	0. 24:	·0971	1. 30	·01172 ***	1. 40	55 ·4	57 ·3
0. 50	34. 5	0. 50	·1002			3. 40	54 ·0	58 ·8
1. 10	30. 5	1. 16:	·0981	4. 15	·00897	9. 40	54 ·0	58 ·2
1. 33	35. 5	1. 36	·1002	7. 30	·00957	21. 40	46 ·0	50 ·5
2. 11	30. 25	2. 8	·0981	10. 0:	·00870			
2. 23	33. 0 ***	2. 30	·0993 ***	16. 2	·01388 ***			
2. 57	29. 30 ***	2. 56	·0988 ***	22. 0	·01330			
				23. 30	·01365			
3. 33	36. 25	3. 17	·1012 ***					
4. 31	22. 20							
5. 40	25. 10 ***	3. 32	·1011 ***					
7. 10	15. 30 ***	4. 0	·0964 ***					
9. 18	22. 5 ***	5. 33	·1005					
		6. 15	·0983					
10. 50	25. 0 ***	6. 26	·0992					
		6. 34	·0988					
12. 38	22. 30 ***	6. 41	·0994					
		6. 48:	·0988 ***					
13. 0	25. 30 ***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 12		Mar. 12						
h m	° ′ ″	h m		h m		h m	°	°
14. 0	22. 22. 0 ***	8. 10	·1008					
		8. 26	·1005					
			***					
15. 26	25. 5 ***							
		10. 30	·1014					
17. 15	17. 30 ***	10. 45	·1024 ***					
18. 58	25. 0 ***	12. 45	·1014					
		13. 15:	·1022					
19. 37	21. 0 ***	13. 53	·1013 ***					
19. 56	26. 35 ***	15. 52	·1020					
		17. 10	·1016					
20. 14	20. 5 ***	17. 24	·1022 ***					
20. 43	17. 30 ***	18. 30	·1006 ***					
23. 14	30. 0 ***	19. 42	·1025 ***					
23. 55	26. 0 ***	21. 45	·1000 ***					
		22. 43	·0960 ***					
		23. 32	·0974 ***					
		23. 59	·0972 ***					
Mar. 13		Mar. 13		Mar. 13				
0. 33	22. 27. 0 ***	1. 15	·1006 ***	1. 30	·01282	1. 40	50 ·0	54 ·5
				5. 10	·00880	3. 40	54 ·0	58 ·0
2. 33	29. 55 ***	3. 38	·1006	7. 15	·00925	9. 40	53 ·0	58 ·0
		3. 56	·0998	10. 0:	·00845	23. 11	44 ·0	49 ·0
3. 44	28. 0	4. 15	·0998 ***	14. 55	·01333			
4. 20	21. 0 ***	5. 18	·1020	18. 15	·01246			
5. 20	18. 25 ***	5. 48	·0990 ***	21. 40	{ ·01275 ·01185			
				23. 28	·01210			
5. 36	21. 0	6. 30	·1013 ***					
6. 15	14. 0 ***	7. 5	·1008					
7. 30	20. 45 ***	7. 28	·1016 ***					
8. 41	18. 50 ***	9. 3	·1014 ***					
10. 34	19. 50 ***	9. 56	·1024 ***					
11. 3	25. 15 ***	10. 40	·1020					
		10. 57	·1040					
11. 35	19. 0 ***	11. 18	·1025 ***					
11. 54	26. 10 ***	11. 51	·1046 ***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 13		Mar. 13						
h m	° ′ ″	h m		h m		h m	°	°
12. 10	22. 18. 0 ***	12. 0	·1038					
		12. 15	·1050					
12. 50	21. 5	12. 58	·1003					
13. 13	17. 50	13. 8	·1010 ***					
13. 24	20. 0 ***	15. 52	·1020					
13. 52	17. 35 ***	15. 56	·1024 ***					
14. 13	21. 0 ***	18. 4	·1022 ***					
15. 30	23. 55 ***	19. 35	·1036 ***					
17. 30	28. 20 ***	21. 15	·1015 ***					
18. 34	29. 20 ***	23. 28	·1012 ***					
20. 58	18. 10 ***	23. 59	·1010 ***					
22. 30	18. 30							
23. 25	23. 0							
Mar. 14		Mar. 14		Mar. 14				
0. 0	22. 23. 25 ***	2. 1	·1007 ***	0. 30	·01212	9. 40	48 ·0	53 ·0
				10. 30:	·00714	21. 40	44 ·0	49 ·8
1. 46	27. 30 ***	4. 5	·1026	20. 44	·01280			
		4. 29	·1012	21. 16	·01255			
4. 0	25. 35	4. 54	·1014 ***	21. 19	·01195			
5. 18	19. 30 ***	5. 35	·1025 ***	23. 15	·01220			
7. 45	20. 0 ***	8. 38	·1028					
8. 42	16. 5	11. 22	·1033					
9. 30	20. 10	11. 40	·1037 ***					
12. 48	20. 5							
13. 12	23. 0	11. 53	·1029					
13. 31	20. 15	13. 32	·1042					
14. 8	29. 20	13. 48	·1030 ***					
14. 45	23. 25							
15. 39	26. 0	14. 24	·1038 ***					
16. 2	24. 0							
17. 23	20. 55 ***	16. 4	·1028 ***					
18. 45	26. 5 ***	16. 10	·1032 ***					
19. 51	20. 45 ***	16. 42	·1036 ***					
21. 0	18. 30 ***	16. 53	·1027 ***					
21. 31	15. 0	18. 0	·1034					
23. 54	25. 0	18. 32	·1021 ***					
		19. 13	·1020					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Mar. 14 h m		h m		h m	°	°
		19. 33	·1026 ***					
		23. 5	·1022 ***					
		22. 22	·1013					
		22. 47	·1016 ***					
		23. 58	·0994					
Mar. 15		Mar. 15		Mar. 15				
0. 28	22. 27. 30	1. 5	·1000 ***	1. 0	·01132	1. 40	49 ·3	53 ·4
5. 8	21. 55			3. 45	·00790	3. 40	51 ·0	55 ·0
7. 0	18. 10	3. 10	·1012 ***	6. 25	·00820	9. 40	52 ·5	57 ·0
7. 38	19. 20			7. 32	·00878	21. 40	49 ·5	54 ·0
8. 2	11. 5	5. 12	·1022	11. 10	·00745			
8. 28	15. 10	5. 28	·1031 ***	22. 45	·01315			
8. 43	12. 30			23. 48	·01280			
9. 3	15. 0	6. 5	·1014 ***					
9. 58	10. 50							
10. 42	22. 0	6. 20	·1019 ***					
11. 15	8. 10							
11. 33	15. 0 ***	6. 52	·1009					
		7. 42	·1022					
16. 30	23. 10 ***	7. 50	·1011					
		8. 3	·1020					
18. 21	19. 30 ***	9. 15	·1017 ***					
19. 30	18. 25 ***	9. 29	·1021					
		10. 10	·1008 ***					
21. 54	13. 55							
23. 59	25. 40	10. 35	·1023					
		11. 2	·1014					
		11. 14	·1042					
		11. 59	·1008					
		12. 17	·1019 ***					
		18. 52	·1026 ***					
		20. 42	·1018 ***					
		22. 52	·1000					
		23. 0	·1007 ***					
		28. 40	·0995					
		28. 50	·1004					
Mar. 16		Mar. 16		Mar. 16				
0. 36	22. 29. 10	0. 2	·0996 ***	1. 0	·01204	1. 40	53 ·0	55 ·8
0. 57	27. 35 ***			4. 53	·00880	3. 40	54 ·0	59 ·0
		1. 48	·1021 ***	7. 30	·00944	9. 40	55 ·0	59 ·0
1. 50	31. 0 ***			10. 0	·00880	21. 40	48 ·7	54 ·0
		2. 44	·1011	17. 57	·01448			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 16		Mar. 16		Mar. 16				
h m	° ′ ″	h m		h m		h m	°	°
7. 0	22. 18. 5	3. 17	·1022 ***	19. 4	·01445			
9. 14	22. 0 ***			20. 8	·01376			
		3. 46	·1017 ***	23. 45	·01425			
13. 7	23. 50 ***							
		5. 12	·1020					
16. 33	21. 5 ***	5. 22	·1014 ***					
18. 9	25. 0 ***	6. 7	·1005 ***					
19. 20	22. 0 ***	7. 3	·1016 ***					
22. 11	20. 0	11. 59	·1024 ***					
23. 11	26. 20							
23. 58	26. 0	13. 4	·1021 ***					
		15. 0	·1033 ***					
		16. 50	·1027 ***					
		18. 20	·1027 ***					
		19. 5	·1030 ***					
		20. 13	·1021					
		20. 33	·1011					
		21. 16	·1009					
		21. 47	·0995 ***					
		22. 28	·1000 ***					
		23. 52	·0987					
Mar. 17		Mar. 17		Mar. 17				
0. 30	22. 28. 15 ***	0. 42	·0994 ***	2. 1	·01370	1. 40	51 ·5	56 ·0
				6. 15	·00916	3. 40	53 ·0	58 ·0
1. 36	32. 0 ***	1. 40	·1009 ***	7. 30	·00960	9. 40	54 ·0	58 ·0
				10. 0	·00876	21. 40	48 ·0	53 ·0
1. 58	27. 0 ***	1. 56	·0992	15. 16	·01370			
		2. 13	·1005	16. 8	·01320			
2. 38	31. 30 ***	2. 22	·1000	16. 40	·01340			
		2. 32	·1009	18. 0	·01310			
4. 22	26. 40 ***	3. 1	·1009 ***	23. 48	·01370			
4. 45	17. 40	3. 28	·0992 ***					
5. 13	19. 50							
5. 40	15. 0	4. 21	·1009					
6. 30	19. 25 ***	4. 40	·1000					
		4. 56	·1017					
8. 28	18. 0	5. 39	·1013					
8. 52	13. 55	6. 3	·1021 ***					
9. 18	19. 30							
9. 31	16. 55 ***	8. 15	·1015					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 17		Mar. 17						
h m	° ′ ″	h m		h m		h m	°	°
12. 11	22. 22. 10	8. 30	·1025					
12. 27	24. 55	8. 48	·1019					
12. 37	21. 35	9. 5	·1030					
12. 51	27. 0	10. 2	·1034					
13. 20	20. 0	10. 30	·1026					
13. 41	23. 45 ***	11. 0	·1028					
		11. 17:	·1023					
14. 33	16. 0 ***	11. 31	·1027 ***					
15. 48	18. 30	12. 40	·1031					
16. 4	15. 45	13. 0	·1045					
16. 49	25. 25	13. 28	·1026					
17. 2	23. 35	14. 20	·1023					
17. 29	27. 5 ***	14. 53	·1037					
		15. 40	·1044					
18. 43	20. 20 ***	15. 47	·1039					
		15. 55	·1041					
19. 41	25. 55 ***	16. 44	·1023					
		16. 38	·1033 ***					
21. 12	18. 20							
21. 27	21. 0 ***	17. 14	·1033					
		17. 28	·1024 ***					
21. 49	19. 30 ***							
		18. 8	·1037					
23. 58	26. 40 ***	18. 29	·1033					
		18. 52	·1040 ***					
		19. 32	·1027					
		20. 48	·1018					
		21. 22	·1021 ***					
		22. 26	·1016 ***					
		22. 39	·1008 ***					
		23. 58	·1018					
Mar. 18		Mar. 18		Mar. 18				
0. 54	22. 29. 20 ***	0. 22	·1007 ***	1. 32	·01320	1. 40	50 ·8	55 ·0
				6. 46	·00825	3. 40	53 ·0	56 ·0
6. 30	18. 0 ***	1. 58	·1000 ***	7. 29	·00855	9. 40	52 ·0	57 ·0
				9. 19:	·00804	21. 40	45 ·4	52 ·0
11. 14	23. 30 ***	2. 45	·1022 ***	16. 21	·01345			
				20. 11	·01340			
14. 24	21. 40 ***	14. 59	·1037	20. 15	·01285			
		15. 33	·1027 ***	23. 45	·01312			
14. 46	30. 25 ***							
		18. 26	·1039					
15. 37	22. 30 ***	19. 0	·1031 ***					
18. 30	20. 45 ***	20. 55	·1033					
		21. 48	·1023					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Mar. 18		Mar. 18						
h m	° ′ ″	h m		h m		h m	°	°
19. 33	22. 22. 20 ***	21. 58	·1014					
		22. 29	·1017					
20. 58	17. 5 ***	22. 48	·1008 ***					
23. 57	27. 30	23. 59	·1012					
Mar. 19		Mar. 19		Mar. 19				
0. 30	22. 29. 0	0. 57	·1011	1. 0	·01280	1. 40	49 ·0	54 ·5
1. 14	25. 30		***	4. 28	·00850	3. 40	54 ·0	58 ·4
1. 30	27. 25	1. 33	·1030	10. 0:	·00820	9. 40	53 ·8	57 ·3
1. 54	25. 30		***	16. 25	·01352	21. 40	45 ·0	50 ·5
2. 23	28. 30 ***	2. 21	·1034 ***	22. 28	·01301			
				22. 38	·01265			
5. 30	13. 25	3. 4	·1026 ***					
7. 0	19. 10 ***							
		3. 33	·1036 ***					
10. 27	20. 0 ***							
		4. 6	·1020 ***					
11. 54	25. 25							
12. 12	22. 0 ***	5. 15	·1037					
		5. 24	·1029					
12. 40	24. 55 ***	6. 0	·1036					
		6. 17	·1025 ***					
13. 33	21. 0							
13. 59	28. 0 ***	10. 32	·1038 ***					
14. 30	23. 10 ***	11. 40	·1031					
		11. 46	·1042					
16. 47	21. 10 ***	12. 20	·1032 ***					
18. 30	26. 45 ***	13. 3	·1045					
		13. 40	·1033 ***					
21. 6	15. 25 ***							
		14. 29	·1042 ***					
23. 57	24. 25 ***							
		15. 28	·1039 ***					
		16. 47	·1038					
		17. 38	·1028					
		18. 52	·1035 ***					
		20. 24	·1037 ***					
		22. 12	·1016 ***					
		23. 59	·1013 ***					
Mar. 20		Mar. 20		Mar. 20				
0. 0	22. 24. 10 ***	0. 17	·1019 ***	1. 30	·01061	1. 40	51 ·0	55 ·0
				2. 31	·00865	3. 40	55 ·0	59 ·8
1. 10	27. 5	2. 45	·1014 ***	4. 12	·01079	9. 40	59 ·0	63 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 20		Mar. 20		Mar. 20				
h m	° ′ ″	h m		h m		h m	°	°
1. 30	22. 30. 0	3. 19	·1018	4. 45	·01037	23. 7	47 ·0	52 ·0
	***		***	6. 3	·01105			
2. 45	27. 0	3. 42	·1000	8. 46	·00980			
	***		***	10. 3	·01034			
3. 32	29. 20	4. 10	·1040	10. 44	·01032			
	***		***	11. 15:	·00983			
4. 6	19. 0	4. 40	·1013	14. 46	·01445			
	***		***	19. 0	·01390			
5. 30	21. 30	5. 8	·1020	20. 40	·01312			
	***		***	23. 15	·01360			
5. 58	18. 10	5. 38	·1011					
6. 16	7. 15		***					
7. 10	19. 5	5. 48	·1019					
	***		***					
9. 16	15. 0	6. 15	·1034					
	***	6. 41	·1012					
9. 32	9. 5		***					
	***	8. 40	·1017					
9. 45	13. 0		***					
	***	9. 30	·0999					
10. 0	10. 30	9. 45	·1012					
	***	9. 49	·1009					
10. 35	14. 0	10. 6	·1022					
	***	10. 35	·1001					
10. 59	30. 0	10. 48	·1026					
	***	11. 5	·0987					
11. 20	9. 0		***					
	***	11. 15	·0990					
11. 38	17. 20	11. 32	·1039					
	***	11. 46	·1014					
11. 59	11. 40		***					
	***	12. 10	·1018					
14. 21	21. 55	12. 24	·1012					
15. 0	26. 35		***					
	***	13. 15	·1022					
16. 30	22. 5		***					
	***	15. 0	·1018					
19. 39	22. 55		***					
	***	16. 16	·1031					
21. 10	13. 55		***					
	***	20. 10	·1026					
23. 22	23. 0		***					
		21. 56	·1020					
			***					
		22. 38	·1012					
		23. 18	·1017					
		23. 34	·1010					
			***					
Mar. 21		Mar. 21		Mar. 21				
0. 0	22. 22. 50	0. 2	·0999	0. 0	·01353	9. 40	58 ·0	63 ·0
0. 58	27. 55	0. 56	·1017	1. 30	·01260	21. 40	50 ·0	55 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 21		Mar. 21		Mar. 21				
h m	° ′ ″	h m		h m		h m	°	°
1. 12	22. 25. 0	1. 8	·1012	3. 40	·00840			
	***	3. 5	·1019	7. 27	·01041			
3. 23	26. 10	5. 11	·1025	9. 22	·00960			
	***	5. 30:	·1018	9. 45:	·01020			
7. 30	17. 25	5. 56	·1015	16. 3	·01469			
	***	6. 26	·1017	21. 0	·01400			
8. 48	6. 40	6. 33	·1028	23. 15	·01448			
9. 4	22. 10. 25		***					
9. 28	21. 59. 20	7. 30	·1028					
10. 8	22. 13. 0		***					
	***	8. 0	·1010					
12. 8	24. 35	8. 45:	·1010					
	***		***					
13. 18	17. 15	9. 42:	·1036					
	***	10. 20	·1006					
14. 0	20. 40		***					
	***	11. 24	·1014					
17. 12	21. 20	11. 48	·1036					
	***	12. 6	·1034					
17. 42	25. 0	12. 18	·1026					
	***	12. 24	·1022					
21. 0	12. 0		***					
	***	15. 10	·1022					
23. 57	20. 35	15. 27	·1029					
	***	15. 50	·1017					
			***					
		17. 55	·1019					
			***					
		19. 28	·1035					
			***					
		20. 45	·1019					
			***					
		21. 21	·1025					
			***					
		23. 59	·1006					
			***					
Mar. 22		Mar. 22		Mar. 22				
0. 30	22. 25. 20	1. 21	·1009	1. 0	·01345	1. 40	56 ·0	60 ·0
1. 37	29. 25		***	2. 50	·01010	3. 40	62 ·0	67 ·5
4. 48	25. 0	1. 56	·0996	5. 24	·01081	9. 40	64 ·0	67 ·0
5. 28	15. 0	2. 24	·1003	5. 47	·01141	21. 40	53 ·0	56 ·0
6. 8	21. 0	2. 34	·0996	6. 45	·01080			
7. 0	20. 0		***	7. 38	·01120			
7. 42	12. 40	4. 57	·1009	8. 35:	·01070			
8. 30	18. 30		***	15. 30	·01504			
	***	5. 33	·1028	23. 27	·01380			
12. 3	21. 40		***	23. 38	·01340			
	***	7. 27	·1004					
12. 28	19. 0	7. 56	·1033					
	***	8. 30	·1010					
12. 50	24. 30	9. 45	·1003					
	***		***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 22		Mar. 22						
h m	° ′ ″	h m		h m		h m	°	°
13. 16	22. 20. 0	11. 45	·1016					
	***	12. 0	·1026					
14. 0	24. 25	12. 30	·1018					
	***	12. 45	·1026					
15. 22	19. 35		***					
	***	15. 54	·1026					
17. 2	23. 30	16. 30	·1019					
	***		***					
19. 0	21. 35	19. 12	·1029					
	***		***					
21. 17	13. 10	21. 25	·1019					
	***	23. 30	·0992					
23. 47	25. 0							
Mar. 23		Mar. 23		Mar. 23				
0. 0	22. 25. 30	0. 0	·0992	0. 30	·01320	1. 40	57 ·0	61 ·0
1. 45	29. 55		***	3. 14	·00952	3. 40	59 ·0	65 ·0
9. 9	18. 0	4. 18	·1004	7. 0	·01120	9. 40	64 ·0	69 ·0
9. 32	15. 15		***	9. 20:	·01121	21. 40	53 ·0	57 ·0
	***	9. 3	·1007	14. 15	·01558			
10. 50	20. 10	9. 28	·1001	18. 0	·01458			
11. 31	18. 35	9. 58	·1001	19. 30	·01471			
	***		***	22. 45	·01333			
19. 0	21. 55	11. 10	·1014					
	***	12. 5	·1005					
21. 33	12. 5	12. 29	·1013					
23. 59	22. 20	20. 15	·1024					
		23. 10	·1001					
		23. 59	·1000					
Mar. 24		Mar. 24		Mar. 24				
1. 0:	22. 26. 0	0. 45	·1002	1. 30	·01315	1. 40	55 ·5	60 ·0
2. 45	26. 30	19. 30	·1037	5. 7	·00890	3. 40	57 ·0	64 ·0
6. 30	20. 0	23. 59	·1009	9. 0:	·00841	9. 40	58 ·0	62 ·5
	***			15. 47	·01405	21. 40	48 ·0	52 ·5
19. 41	22. 0			15. 53	·01380			
	***			18. 56	·01345			
21. 12	14. 5			19. 0	·01311			
23. 58	22. 30			19. 20	·01335			
				21. 30	·01280			
				23. 45	·01327			
Mar. 25		Mar. 25		Mar. 25				
0. 30	22. 23. 45	0. 20	·1005	1. 0	·01298	1. 40	53 ·0	57 ·0
2. 30	26. 30	9. 16	·1024	5. 30	·00774	3. 40	60 ·0	64 ·5
7. 0	19. 25	10. 5	·1020	7. 32	·00820	9. 40	55 ·5	59 ·0
9. 24	21. 0	10. 18	·1029	9. 24:	·00760	21. 40	49 ·0	53 ·5
10. 5	18. 30	10. 48	·1017	16. 40	·01358			
	***	20. 2	·1035	23. 30	·01280			
19. 0	20. 5	22. 27	·1014					
	***	23. 50	·1014					
20. 50	15. 10							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 25								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 25. 35							
Mar. 26		Mar. 26		Mar. 26				
0. 31	22. 26. 50	0. 30	·1017	1. 30	·01181	1. 40	53 ·5	57 ·0
	***		***	4. 10	·00780	3. 40	56 ·0	60 ·0
2. 42	29. 10	2. 42	·1037		***	9. 40	56 ·0	60 ·0
	***		***	6. 15	·00820	21. 40	46 ·0	50 ·0
5. 13	27. 10	4. 42	·1046	8. 10	·00837			
	***	4. 47	·1034	8. 28	·00916			
5. 31	22. 30		***	9. 41	·00910			
	***	5. 12	·1060	10. 30	·00998			
5. 40	24. 30		***	10. 44	·01092			
	***	5. 28	·1027	10. 51	·01037			
6. 10	21. 45		***	11. 1	·01054			
6. 16	25. 0	5. 42	·1038		***			
6. 30	21. 35		***	12. 0:	·00929			
7. 15	23. 0	5. 48	·1052	15. 30	·01290			
7. 31	19. 20	5. 51	·1038	19. 0	·01175			
	***		***	23. 30	·01260			
8. 2	31. 0	6. 0	·1044					
	***	6. 2	·1022					
8. 23	12. 20	6. 20	·1067					
8. 25	14. 35	6. 28	·1054					
8. 44	5. 3	6. 34	·1060					
9. 7	10. 0	6. 50	·1031					
9. 12	8. 0	6. 58	·1028					
9. 45	19. 20		***					
10. 0	16. 0	7. 35	·1048					
10. 27	24. 0	7. 48	·1038					
10. 35	15. 0	7. 50	·1047					
10. 37	22. 16. 30	8. 15	·0988					
10. 48	21. 48. 20	8. 22	·1002					
11. 57	22. 12. 10	8. 30	·0985					
12. 12	10. 25		***					
12. 37	16. 55	8. 52	·0995					
12. 57	10. 55	9. 2	·0988					
13. 3	15. 45	9. 29	·1002					
13. 29	7. 10	9. 43	·0981					
	***	10. 15	·1000					
14. 41	18. 55	10. 30	·0980					
	***	10. 35	·0996					
16. 20	21. 0	10. 42	·0984					
16. 46	28. 0	11. 0	·1008					
16. 54	24. 20	11. 15	·0983					
	***	11. 32	·0970					
17. 23	32. 0	11. 50	·0988					
	***	12. 30	·0966					
18. 10	23. 0	12. 56	·1005					
	***	13. 7	·0991					
19. 8	33. 0	13. 22	·0987					
	***	13. 33	·1008					
20. 0	24. 0		***					
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 26		Mar. 26						
h m	° ′ ″	h m		h m		h m	°	°
20. 34	22. 29. 5	13. 57	·0991					
	***	14. 2	·0997					
21. 50	18. 3	14. 6	·0990					
	***	14. 15	·1003					
22. 9	21. 30	14. 22	·0996					
	***		***					
23. 22	24. 45	15. 33	·0995					
	***	15. 52	·0979					
23. 34	20. 0	16. 20	·1004					
	***		***					
23. 52	25. 15	17. 10	·1011					
	***		***					
23. 59	24. 25	17. 40:	·0999					
	***	17. 47	·1008					
			***					
		18. 51	·0988					
			***					
		19. 29	·1009					
		19. 41	·1006					
		19. 46	·0995					
		20. 6	·1007					
			***					
		21. 35	·0987					
			***					
		21. 51	·0991					
			***					
		22. 46	·0974					
		22. 59	·1008					
		23. 13	·0983					
		23. 16	·0990					
		23. 32	·0970					
			***					
		23. 48	·0988					
		23. 53	·0981					
Mar. 27		Mar. 27		Mar. 27				
0. 35	22. 26. 5	0. 37	·0983	2. 0	·01240	1. 40	49 ·0	53 ·0
	***	1. 29	·0989	5. 48	·00899	3. 40	51 ·0	55 ·0
2. 16	26. 0	1. 42	·0983	6. 0	·00871	9. 40	51 ·0	55 ·0
	(†)	2. 23	·1012	6. 10	·00904	22. 40	43 ·0	47 ·0
4. 32	23. 30		***	6. 45	·00815			
	***	3. 13	·1017	7. 23	·00810			
5. 44	24. 0	3. 21	·1001	9. 30	·00695			
6. 9	4. 0	3. 35	·1021	11. 15:	·00690			
6. 39	19. 0	4. 12	·1022	17. 45	·01235			
6. 49	12. 0	4. 54	·1010	18. 49	·01230			
6. 55	14. 0	5. 7	·1019	19. 0	·01202			
7. 7:	8. 0	5. 17	·1023	23. 15	·01163			
7. 28:	15. 55	5. 59	·0991					
7. 42	12. 10	6. 20	·1062					
8. 2:	17. 25	6. 41	·1010					
8. 14	15. 5	6. 45	·1020					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 27		Mar. 27						
h m	° ′ ″	h m		h m		h m	°	°
8. 40	22. 20. 0	6. 55	·1006					
	***	7. 16	·1033					
9. 24	22. 5	7. 35	·1012					
	***	8. 1	·1006					
10. 54	19. 25	9. 15	·1019					
11. 4	25. 0	9. 40	·1011					
11. 26	8. 35	10. 41	·1033					
12. 4:	20. 35	10. 47	·1023					
12. 32:	11. 5	10. 59	·1025					
	***	11. 13	·1008					
15. 0	22. 55	11. 44:	·1056					
	***	12. 20	·1003					
19. 16	23. 25	12. 43	·1012					
	***	13. 0	·1003					
21. 57	16. 25		***					
23. 21	23. 5	18. 0	·1023					
		19. 51	·1012					
		20. 58	·1012					
		23. 59	·1003					
Mar. 28		Mar. 28		Mar. 28				
0. 0	22. 25. 30	0. 0	·0997	0. 30	·01161	9. 40	51 ·0	56 ·0
	***		***	2. 0	·01160	21. 40	48 ·0	53 ·0
2. 5	30. 0	2. 11	·1012	5. 54	·00742			
	***	2. 21	·1008	7. 30	·00793			
3. 39	26. 55		***	10. 21:	·00671			
	***	3. 41	·1020	22. 30	·01225			
3. 57	20. 40		***					
	***	3. 54	·1013					
5. 28	23. 15		***					
	***	4. 28	·1032					
6. 30	18. 20		***					
	***	6. 28	·1012					
8. 8	17. 50	8. 12	·1021					
8. 24	13. 5	8. 32	·1044					
8. 54	21. 5	9. 9	·1024					
9. 22	13. 0	9. 29	·1035					
10. 0	18. 35	10. 43	·1014					
	***		***					
11. 25	17. 39	13. 44	·1020					
	***	13. 49	·1027					
11. 48	20. 30	14. 26	·1014					
	***	16. 1	·1021					
13. 11	22. 0	17. 27	·1017					
13. 39	19. 40	18. 0	·1024					
14. 14	25. 45	19. 2	·1026					
	***	22. 11	·0991					
16. 11	18. 25		***					
	***	23. 59	·0995					
17. 27	25. 5							
	***							
21. 10	15. 15							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 28								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 26. 40							
Mar. 29		Mar. 29		Mar. 29				
0. 40	22. 29. 30	0. 25	·1000	1. 0	·01050	1. 40	54 ·0	58 ·0
6. 14	19. 20		***	2. 28	·00850	3. 40	58 ·5	62 ·0
7. 50	17. 15	1. 5	·0996	5. 0	·00952	9. 40	59 ·0	64 ·0
	***		***	6. 45	·00920	21. 40	57 ·0	60 ·0
8. 15	19. 30	1. 35	·0990	10. 0:	·00887			
8. 40:	13. 25	3. 48	·1006	21. 0	·01496			
	***	4. 5	·1000					
9. 39	10. 30	4. 50	·1000					
	***	5. 29	·1010					
11. 30	20. 5	5. 52	·1000					
	***	7. 47	·1007					
13. 19	21. 55		***					
	***	8. 14	·1021					
14. 30	18. 30	8. 32	·1016					
	***		***					
15. 30	24. 30	8. 59	·1021					
16. 7	18. 10	9. 8	·1011					
	***	10. 33	·0993					
21. 24	15. 30		***					
	***	13. 16	·0996					
23. 56	24. 0	13. 42	·1004					
		15. 13	·1000					
		15. 44	·1010					
		18. 3	·1003					
		19. 3	·1008					
		22. 35	·0994					
		23. 59	·1002					
Mar. 30		Mar. 30		Mar. 30				
0. 42	22. 24. 0	0. 30	·1000	1. 30	·01463	1. 40	59 ·0	63 ·0
1. 30	27. 30	1. 30	·1000	8. 58	·01260	3. 40	61 ·0	64 ·0
	***	2. 4	·0990	12. 0	·01329	9. 40	60 ·0	64 ·0
4. 13	20. 20	2. 58	·1006	15. 50	·01517	21. 40	56 ·0	60 ·0
5. 15	23. 0	3. 57	·1011	15. 52	·01494			
5. 53	17. 35	4. 9	·1002	16. 14	{ ·01500			
6. 11	20. 25	4. 36	·1008		{ ·01448			
7. 12	17. 25	5. 45	·0997	17. 0	·01499			
8. 0	21. 5	5. 58	·1006	19. 0	·01530			
	***	6. 28	·0995	23. 45	·01505			
9. 16	19. 5	8. 0	·1006					
10. 51	20. 50	9. 4	·0998					
11. 28	16. 10	9. 33	·1007					
11. 45	18. 30	10. 32	·1001					
	***	11. 30	·1009					
12. 59	13. 35	11. 59	·0998					
14. 33	20. 50		***					
	***	14. 52	·1016					
15. 49	16. 35	16. 32	·1006					
17. 30	20. 25	21. 25	·0995					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 30		Mar. 30						
h m	° ′ ″	h m		h m		h m	°	°
19. 0	22. 19. 0	23. 59	·0978					
	***							
21. 4	15. 35							
	***							
23. 59	27. 50							
Mar. 31		Mar. 31		Mar. 31				
1. 0	22. 30. 55	0. 5	·0977	1. 30	·01510	1. 40	53 ·0	62 ·0
6. 30	22. 25	2. 53	·0986	6. 16	·01385	3. 40	59 ·0	62 ·0
7. 48	20. 0	6. 6	·1010	9. 0	·01445	9. 40	57 ·0	62 ·0
8. 29	13. 35	6. 33	·1005	9. 47	·01420	21. 40	51 ·5	56 ·0
8. 50	22. 15. 30	7. 18	·1012	11. 17	·01574			
	***	7. 48	·1004	13. 5	·01443			
9. 47	21. 52. 40	8. 7	·1014	13. 10	·01393			
	***	8. 22	·1010	13. 24	·01380			
11. 19	22. 18. 15	8. 32	·1019	13. 40	·01370			
	***	9. 1	·1004	14. 0	·01285			
12. 8	21. 58. 5	9. 9	·1018	14. 24	·01333			
12. 22	22. 2. 25	10. 2	·0970	14. 45	·01300			
12. 31	0. 15		***	15. 4	·01354			
	***	11. 57	·1024	17. 17	·01370			
13. 36	11. 0		***	18. 8	·01295			
	***	13. 0	·0983	21. 40	{ ·01370			
14. 22	6. 50		***		{ ·01030			
14. 45	8. 30	13. 30	·0987	23. 45	·01080			
	***	13. 33	·0995					
15. 22	24. 35	13. 46	·0995					
	***	14. 2	·0973					
17. 7	21. 35	14. 30	·1000					
17. 33	37. 5	14. 48	·0985					
18. 12	22. 0		***					
	***	16. 13	·1009					
18. 47	24. 5	19. 0	·1008					
	***	19. 52	·1003					
19. 42	19. 20		***					
	***	23. 59	·1011					
20. 24	18. 0							
	***							
20. 44	21. 5							
20. 51	18. 5							
	***							
23. 59	27. 5							
Apr. 1		Apr. 1		Apr. 1				
1. 2	22. 28. 0	0. 5	·0977	2. 10	·01041	1. 40	54 ·0	58 ·0
1. 29	30. 0	1. 15	·0960	4. 0	·00865	3. 40	57 ·0	60 ·5
	***	1. 40	·0983	6. 45	·00872	9. 40	58 ·0	61 ·5
1. 54	28. 35	2. 18	·0986	7. 40	·00942	21. 40	47 ·0	51 ·5
2. 15	30. 25	2. 45	·0976	9. 28:	·00875			
2. 41	28. 5	3. 10	·0987	14. 45	·01340			
3. 6	29. 35	3. 20	·0979	19. 0	·01268			
	***		***	21. 30	·01235			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 1		Apr. 1		Apr. 1				
h m	° ′ ″	h m		h m		h m	°	°
7. 28	22. 16. 55	6. 22	·1004	23. 30	·01265			
	***	6. 59	·0991					
9. 23	21. 40	7. 45	·1000					
	***	8. 13	·0993					
11. 17	22. 5	8. 37	·0999					
	***	9. 6	·0989					
11. 40	19. 25		***					
	***	11. 29	·1005					
12. 45	25. 30	11. 47	·1026					
	***	12. 27	·1029					
14. 0	19. 5	12. 43	·1017					
	***	14. 17	·1004					
15. 0	25. 55	16. 14	·1018					
	***	19. 7	·1017					
16. 8	20. 20	21. 33	·1006					
	***	23. 12	·0966					
19. 0	22. 25	23. 44	·0967					
	***							
19. 39	17. 40							
20. 20	19. 30							
21. 3	14. 45							
23. 47	28. 10							
Apr. 2		Apr. 2		Apr. 2				
1. 0	22. 28. 0	0. 30	·0978	1. 30	·00970	1. 43	54 ·5	58 ·0
	***	2. 59	·0996	2. 10	·00805	3. 40	58 ·0	62 ·0
4. 24	27. 0		***	7. 32	·00993	9. 40	58 ·0	61 ·5
4. 45	21. 50	5. 0	·1005	9. 0:	·00917	21. 40	46 ·0	50 ·0
5. 7	25. 0	5. 14	·0990	14. 30	·01340			
5. 19	22. 20	5. 22	·0997	15. 10	·01260			
5. 33	24. 10	5. 47	·0986	21. 0	·01211			
6. 0	20. 30	6. 14	·1000	23. 15	·01260			
6. 30	23. 25		***					
6. 58	13. 30	6. 42	·0992					
7. 15	22. 20. 55	7. 0	·1014					
7. 37	21. 59. 30	7. 13	·0996					
7. 58	22. 17. 40	7. 18	·1007					
8. 3	11. 40	7. 28	·0985					
8. 20	22. 0	7. 43	·1036					
8. 43	15. 25	7. 59	·0995					
	***	8. 8	·1010					
11. 44	13. 30	8. 26	·0979					
	***		***					
12. 38	7. 25	12. 19	·0991					
	***	12. 35	·0983					
13. 50	17. 55		***					
14. 12	17. 25	15. 6	·1023					
14. 40	32. 50	15. 45	·1012					
14. 59	25. 5		***					
	***	17. 2	·1026					
15. 53	20. 10		***					
	***	20. 41	·1010					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 2		Apr. 2						
h m	° ′ ″	h m		h m		h m	°	°
17. 45	22. 23. 15	22. 30	·0986					
	***	22. 45	·0994					
19. 40	21. 35	23. 59	·0993					
	***							
20. 32	14. 35							
	***							
22. 14	18. 0							
	***							
23. 59	26. 5							
Apr. 3		Apr. 3		Apr. 3				
0. 30	22. 28. 0	1. 0	·1000	1. 30	·01090	1. 43	52 ·5	56 ·0
	***	1. 20	·0994	3. 12	·00800	3. 40	55 ·5	60 ·0
2. 15	31. 40		***	6. 0	·00890	9. 40	57 ·3	62 ·0
	***	3. 14	·0998	10. 0:	·00831	22. 40	47 ·2	51 ·5
5. 33	19. 0	4. 15	·1014	15. 29	·01340			
	***		***	19. 0	·01254			
6. 47	22. 0	4. 47	·0990	23. 15	·01240			
	***	5. 17	·1016					
10. 48	20. 5	5. 58	·1004					
	***	6. 12	·1012					
13. 10	24. 5	6. 28	·1007					
	***	6. 37	·1012					
15. 40	20. 35	6. 48	·1003					
	***	12. 0	·1014					
16. 36	28. 25	12. 47	·1007					
	***	13. 15	·1018					
18. 27	22. 0	13. 37	·1014					
	***	14. 8	·1028					
22. 4	19. 0	14. 35	·1019					
23. 20	24. 35	15. 45	·1022					
		16. 26	·1001					
		17. 5	·1022					
		18. 29	·1029					
		21. 45	·1009					
		23. 13	·0985					
		23. 59	·0995					
Apr. 4		Apr. 4		Apr. 4				
0. 0	22. 27. 25	0. 15	·1002	0. 30	·01253	10. 43	53 ·5	57 ·0
	***	2. 20	·1018	3. 30	·01101	21. 40	47 ·8	52 ·5
1. 0	31. 0	3. 44	·0997	7. 10	·00760			
	***		***	7. 45	·00800			
3. 0	31. 35	4. 32	·1030	11. 23:	·00713			
	***	5. 16	·1007	17. 13	·01182			
7. 30	17. 0		***	19. 40	·01211			
	***	6. 15	·1017	19. 45	·01178			
9. 44	19. 15		***	21. 30	·01210			
10. 12	15. 25	8. 25	·1009	23. 30	·01140			
	***	10. 21	·1019					
11. 23	17. 50	11. 22	·1014					
11. 31	13. 55	11. 33	·1042					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 4		Apr. 4						
h m	° ′ ″	h m		h m		h m	°	°
11. 41	22. 17. 5	12. 28	·1016					
	***	13. 44	·1010					
13. 14	19. 20	15. 8	·1018					
13. 43	14. 5	15. 57	·1011					
14. 1	16. 0	17. 10	·1021					
14. 45:	11. 0	17. 37	·1008					
	***		***					
16. 2	25. 30	20. 9	·1016					
16. 52	12. 35	22. 27	·0980					
17. 37:	21. 45		***					
18. 11	15. 20	23. 59	·0981					
19. 2	23. 5		***					
	***							
20. 1	14. 0							
	***							
20. 11	16. 10							
	***							
21. 30	16. 0							
	***							
23. 59	29. 0							
Apr. 5		Apr. 5		Apr. 5				
1. 0	22. 31. 0	0. 30	·0992	1. 0	·00945	1. 42	55 ·0	59 ·0
	***		***	1. 42	·00802	3. 40	59 ·5	63 ·0
1. 55	35. 5	2. 13	·0983	4. 0	·01042	9. 54	63 ·0	65 ·5
2. 20	29. 40		***	7. 40	·01023	21. 40	51 ·0	55 ·2
3. 9	35. 15	3. 4	·1008	10. 10	·00951			
	***	3. 17	·0989	12. 30:	·01084			
5. 14	27. 40	4. 8	·0991	15. 7	·01424			
	***	4. 28	·0981	20. 0	·01350			
6. 29	10. 25		***	23. 32	{ ·01350			
	***	5. 8	·1000		{ ·01280			
6. 59	18. 50	5. 29	·0989					
	***		***					
7. 50	4. 0	6. 45	·1045					
	***	7. 8	·1000					
8. 50	17. 10	7. 21	·1011					
9. 11	8. 10	7. 33	·0999					
9. 21	10. 45	8. 0	·1018					
9. 33	4. 0	8. 42	·0983					
9. 54	16. 0	9. 2	·0986					
	***	9. 13	·0997					
10. 42	20. 30	9. 23	·0976					
	***	9. 42	·1010					
11. 30	17. 0	9. 53	·0990					
	***		***					
12. 10	22. 25	12. 20	·0994					
	***	12. 32	·1021					
12. 26	19. 0	12. 50	·1000					
	***		***					
12. 43:	27. 35	18. 47	·1004					
	***	19. 11	·1010					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 5		Apr. 5						
h m	° ′ ″	h m		h m		h m	°	°
13. 12	22. 18. 35	20. 40	·1000					
	***	22. 0	·0970					
13. 26	20. 0		***					
	***	23. 59	·0980					
14. 0	17. 0							
	***							
18. 0	26 10							
	***							
19. 31	23. 50							
	***							
20. 43	15. 50							
	***							
23. 59	26. 55							
	***							
Apr. 6		Apr. 6		Apr. 6				
0. 39	22. 28. 30	0. 15	·0976	1. 30	·01213	1. 40	54 ·8	58 ·0
1. 37	31. 0		***	3. 55	·00902	3. 40	58 ·5	63 ·0
	***	4. 3	·1010	6. 48	·00900	9. 40	61 ·0	65 ·0
6. 30	22. 0	4. 45	·1001	8. 0	·00945	21. 40	53 ·5	58 ·0
	***	8. 53	·1009	11. 0:	·00886			
9. 14	20. 0	9. 13	·1015	17. 23	·01440			
	***	9. 43	·1004	23. 45	·01366			
15. 3	23. 20	18. 43	·1009					
15. 30	25. 10	23. 16	·0977					
	***							
19. 0	20. 35							
	***							
21. 30	15. 50							
23. 59	25. 0							
Apr. 7		Apr. 7		Apr. 7				
0. 40	22. 27. 30	0. 0	·0981	1. 30	·01345	1. 40	55 ·5	59 ·0
1. 30	30. 10	3. 48	·1011	3. 45	{ ·01270	3. 40	57 ·0	60 ·0
7. 0	23. 0	5. 2	·1006		{ ·01067	9. 40	57 ·0	61 ·0
	***		***	9. 9:	·00837	21. 40	51 ·5	55 ·5
17. 0	23. 30	18. 58	·1030	15. 49	·01314			
19. 0	20. 10		***	16. 43	{ ·01311			
	---	20. 45	·1020		{ ·01260			
20. 58	13. 30		***	17. 20	·01305			
	***	23. 25	·0984	21. 30	·01280			
23. 58	26. 0	23. 45	·0992	22. 45	·01290			
				23. 52	·01225			
Apr. 8		Apr. 8		Apr. 8				
0. 13	22. 27. 5	0. 35	·0986	1. 0	·01120	1. 42	56 ·5	60 ·0
2. 15	30. 30	5. 41	·1000	2. 50	·00860	3. 40	59 ·0	63 ·0
	***	6. 21	·1018	8. 23	·00947	9. 40	60 ·0	65 ·0
8. 20	16. 25		***	9. 24	·00891	22. 40	50 ·0	54 ·0
8. 43	17. 35	8. 47	·0989	10. 14	·00929			
9. 2	12. 0	9. 8	·1003	10. 31:	·00873			
9. 24	22. 23. 40	9. 31	·0982	14. 29	·01404			
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 8		Apr. 8		Apr. 8				
h m	° ′ ″	h m		h m		h m	°	°
10. 8	21. 56. 0	9. 57	·0981	23. 15	·01233			
	***	10. 17	·1057					
10. 31	22. 18. 0	10. 40	·1019					
10. 51	21. 55	12. 26	·0989					
10. 59	20. 30	12. 32	·0998					
11. 22	28. 5	19. 3	·1020					
	***	20. 0	·1020					
12. 15	22. 50	23. 0	·0993					
	***							
18. 30	24. 0							
	***							
21. 20	15. 10							
23. 13	23. 0							
Apr. 9		Apr. 9		Apr. 9				
0. 0	22. 28. 10	0. 0	·0998	0. 0	·01225	7. 37	54 ·5	58 ·0
1. 0	33. 0		***	4. 10	·01210	21. 40	46 ·5	50 ·0
	***	3. 13	·1007	10. 30:	·00728			
3. 1	33. 0	3. 27	·0992	16. 35	·01250			
	***	3. 50	·1012	16. 40	·01235			
4. 15	23. 20	4. 17	·1000	18. 15	·01195			
5. 11	26. 55		***	18. 30	·01161			
	***	5. 15:	·0994		***			
9. 28	21. 10		***	23. 0	·01192			
	***	6. 55	·1011					
11. 9	22. 30		***					
	***	7. 38	·1004					
11. 36:	9. 40	9. 0	·1017					
	***		***					
12. 13	20. 45	11. 8	·1028					
	***	11. 29	·1042					
12. 30:	15. 10		***					
	***	12. 14	·1040					
13. 15:	21. 0	12. 33	·1016					
	***		***					
13. 38:	17. 30	13. 29	·1023					
	***		***					
14. 58	30. 40	14. 21	·1012					
	***		***					
16. 5:	20. 0	15. 20	·1033					
	***		***					
18. 0	30. 35	16. 14	·1015					
	***		***					
18. 34	30. 45	17. 12	·1033					
	***		***					
19. 18	17. 35	18. 30	·1025					
	***		***					
19. 48	21. 0	19. 0	·1041					
	***		***					
20. 52	14. 50	23. 35	·0991					
	***							
21. 13	18. 0							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 9								
h m	° ′ ″	h m		h m		h m	°	°
21. 46	22. 15. 15							
	***							
23. 3	24. 30							
	***							
23. 59	25. 10							
	***							
Apr. 10		Apr. 10		Apr. 10				
1. 0	22. 27. 55	0. 48	·1006	1. 2	·01030	1. 40	53 ·5	57 ·0
	***	2. 16	·0996	1. 40	·00925	3. 40	57 ·5	61 ·0
6. 30	20. 10	3. 37	·1012	1. 46	·00920	9. 40	65 ·0	67 ·0
	***	3. 47	·1003		***	22. 40	51 ·5	55 ·5
7. 10	12. 5	4. 4	·1008	2. 20	·00810			
7. 22	13. 55		***		***			
7. 48	10. 0	5. 7	·0997	5. 16	·00980			
8. 16	13. 25	5. 30	·1004		***			
8. 31	11. 5		***	5. 50	·00955			
8. 51	18. 30	6. 0	·1006		***			
	***	6. 16	·1022	7. 50	·01110			
9. 22	17. 35		***	12. 30	·00983			
	***	7. 41	·0977	16. 0	·01350			
11. 48	25. 55	8. 4	·0991	20. 44	·01297			
	***	8. 17	·0986	23. 0	·01300			
12. 0	24. 0	8. 37	·0993					
	***		***					
12. 24	29. 0	9. 33	·0983					
12. 30	27. 30		***					
	***	11. 37	·1000					
12. 41	30. 45	11. 47	·1011					
	***	12. 2	·1001					
13. 10	21. 35	12. 20	·1017					
	***		***					
13. 28	21. 0	13. 44	·0986					
	***		***					
13. 49	37. 0	14. 33	·1008					
	***	14. 58	·1002					
14. 20	28. 0	15. 38	·1011					
	***	17. 10	·1004					
15. 30	24. 35		***					
	***	19. 13	·1006					
15. 47	27. 35		***					
	***	20. 0	·1005					
16. 2	24. 25		***					
	***	20. 53	·0988					
16. 41	25. 25		***					
	***	22. 34	·0995					
16. 55	22. 0		***					
	***	23. 2	·0979					
17. 7	25. 15	23. 14	·0987					
	***	23. 33	·0969					
17. 21	22. 30		***					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 10								
h m	° ′ ″	h m		h m		h m	°	°
18. 43	22. 20. 30 ***							
19. 35	24. 50 ***							
20. 37	17. 0 ***							
21. 2:	23. 20 ***							
21. 39	19. 25 ***							
23. 32	23. 10 ***							
Apr. 11		Apr. 11		Apr. 11				
0. 0	22. 27. 10 ***	0. 20	·0992 ***	0. 45	·01365	9. 40	55 ·0	59 ·0
				2. 0	·01340	21. 40	52 ·0	55 ·5
1. 1	30. 0 ***	0. 50	·0986 ***	5. 35	·00940			
				6. 0	·00930			
4. 33	20. 10 ***	4. 58	·1014	6. 30	·00864			
		5. 32	·1007 ***	8. 0	·00880			
8. 26	17. 50			10. 0:	·00796			
8. 40	5. 0	5. 53	·1027	16. 50	·01380			
8. 57	12. 35	6. 19	·1001 ***	20. 45	·01330			
9. 2	8. 0			21. 0	·01310			
9. 57:	20. 55 ***	7. 56	·1018	21. 30	{ ·01330			
		8. 37	·1007		{ ·01272			
10. 10	19. 15 ***	8. 47	·1024					
		8. 58	·1013					
10. 33	21. 55 ***	9. 13	·1026 ***					
12. 41	25. 0	11. 39	1006 ***					
13. 2:	23. 5							
13. 22	27. 30	20. 16	·1003 ***					
13. 55	22. 5 ***							
		23. 15	·0987					
18. 0	20. 35	23. 32	·0969 ***					
20. 39	16. 0							
20. 46	17. 10	23. 57	·0977 ***					
20. 57	15. 0 ***							
22. 25	22. 0							
23. 32	25. 0							
Apr. 12		Apr. 12		Apr. 12				
0. 30	22. 28. 0 ***	0. 15	·0992 ***	1. 0	·01148	1. 40	56 ·0	60 ·0
2. 0	29. 0 ***			2. 50	·00860	3. 40	59 ·0	63 ·5
		7. 10	·1017 ***	6. 44:	·00830	9. 40	56 ·5	61 ·5
7. 12	14. 10 ***			12. 48	·01370	21. 40	47 ·5	52 ·0
		11. 18	·1012 ***	16. 0	·01250			
10. 0	24. 15 ***			18. 30	·01270			
		12. 28	·1037	22. 0	·01241			
11. 51	25. 10 ***	13. 57	·1008	23. 45	·01120			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 12		Apr. 12						
h m	° ′ ″	h m		h m		h m	°	°
12. 20	22. 22. 0 ***	14. 20	·1021					
		15. 8	·1009					
12. 41	24. 10 ***	16. 29	·1023					
		19. 43	·1019 ***					
14. 29	19. 20 ***							
		21. 23	·0997 ***					
15. 29	29. 5 ***							
		22. 42	·1005					
17. 0	20. 10 ***	23. 50	·0969					
19. 34	17. 20 ***							
20. 43	14. 55 ***							
23. 59	26. 5 ***							
Apr. 13		Apr. 13		Apr. 13				
1. 0	22. 31. 0 ***	1. 28	·1001 ***	1. 0	·00978	1. 40	55 ·0	60 ·0
				1. 45	·00810	3. 40	60 ·0	65 ·0
2. 8	32. 0	2. 17	·0986 ***	4. 0	·01010	9. 40	62 ·0	69 ·0
3. 23	25. 0 ***			7. 0	·00930	21. 40	52 ·0	55 ·0
		2. 36	·1000	8. 12:	·00975			
8. 0	15. 5	2. 59	·0973	14. 20	·01450			
8. 14	16. 35	3. 12	·0993 ***	21. 0	·01261			
8. 32	15. 20 ***			22. 30	·01310			
		5. 30	·0981 ***	23. 55	·01160			
9. 45	22. 0 ***							
		9. 31	·1004 ***					
14. 10	22. 30 ***							
		17. 57	·1015					
14. 21	24. 0 ***	18. 29	·1017 ***					
14. 38	21. 55 ***	19. 11	·1013 ***					
16. 0	29. 35 ***	22. 27	·0985 ***					
17. 30	23. 0 ***	23. 59	·0989					
18. 49	22. 5 ***							
20. 31	13. 45 ***							
20. 55	17. 15 ***							
21. 15	16. 0 ***							
23. 59	26. 0							
Apr. 14		Apr. 14		Apr. 14				
1. 8	22. 32. 0	0. 12	·0983	1. 26	·01090	1. 40	58 ·0	63 ·0
7. 29	16. 30	0. 16	·0981			3. 40	63 ·5	68 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 14		Apr. 14		Apr. 14		h m	°	°
h m	° ′ ″	h m		h m		9. 40	67 ·0	71 ·0
7. 44	22. 19. 5	1. 10	·0993	3. 40	·01210	21. 40	51 ·0	56 ·0
	***		***		·01270			
8. 32:	8. 10	3. 35	·0983	6. 50	·01190			
8. 49:	11. 30	3. 52	·0969	8. 30	·01210			
9. 10	8. 35		***	9. 10:	·01205			
	***	9. 15	·0991	13. 12	·01570			
11. 55	24. 5		***					
	***	10. 2	·0970	21. 40	·01385			
12. 23	19. 25		***		·01120			
	***	12. 3	·0999	23. 23	·01107			
12. 47	22. 40	12. 59	·0991					
	***		***					
14. 33	24. 25	19. 36	·0988					
	***		***					
16. 33	16. 35	23. 52	·0975					
	***							
17. 30	19·15							
	***							
20. 33	18. 5							
	***							
21. 33	14. 35							
	***							
23. 31	26. 30							
	***							
23. 58	26. 30							
	***							
Apr. 15		Apr. 15		Apr. 15				
0. 26	22. 27. 0	0. 22	·0971	1. 30	·01106	1. 40	56 ·6	62 ·0
	***		***	3. 30	·01170	3. 40	60 ·0	65 ·0
2. 16	31. 0	1. 0	·0974		***	9. 40	57 ·0	63 ·0
	***		***	6. 52:	·01051	21. 40	49 ·0	55 ·0
2. 58	22. 15	2. 39	·0977	12. 10	·01465			
	***		***	14. 45	·01283			
4. 49	24. 10	3. 2	·0989	18. 0	·01315			
	***		***		***			
7. 24	20. 55	5. 42	·0981	23. 45	·01295			
	***	6. 12	·0992					
8. 2	12. 10	7. 28	·0976					
	***	8. 8	·0993					
9. 30	24. 10	8. 40	·0987					
	***		***					
13. 2	24. 15	12. 15	·1003					
	***	13. 7	·1017					
13. 24:	28. 0	13. 16	·1014					
	***	13. 42	·1028					
13. 54:	19. 0	14. 16	·1001					
	***	15. 59	·1001					
14. 24	22. 40		***					
	***	16. 28	·0985					
15. 10	18. 25		***					
	***	18. 15	·1003					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 15		Apr. 15				h m	°	°
h m	° ′ ″	h m						
17. 0	22. 22 ·10	19. 14	·1006					
	***		***					
21. 20	18. 20	20. 33	·0985					
	***		***					
23. 59	27. 5	23. 59	·0981					
			***					
Apr. 16		Apr. 16		Apr. 16				
0. 30	22. 28. 25	0. 28	·0981	1. 30	·01274	1. 40	52 ·0	57 ·3
2. 11	32. 30		***	2. 39	·01180	3. 40	55 ·0	61 ·0
2. 42	26. 0	2. 15	·0990	2. 52	·01181	9. 40	53 ·0	59 ·0
3. 16:	24. 10	2. 33	·0969	4. 15	·00923	21. 40	46 ·0	49 ·3
	***		***	6. 0	·00933			
4. 30	26. 25	3. 1	·1003	6. 10	·00955			
	***		***	7. 12:	·00900			
7. 10	21. 0	4. 0	·0980	12. 29	·01349			
	***		***	22. 30	·01265			
8. 12	23. 5	4. 22	·1005	23. 50	·01183			
	***		***					
8. 51	21. 0	5. 17	·0975					
	***	5. 40	·0990					
9. 59	24. 30	5. 58	·0976					
	***	6. 15	·0988					
11. 15	20. 25	6. 39	·0982					
	***		***					
11. 38	23. 30	7. 42	·0970					
	***		***					
14. 0	23. 35	11. 21	·1000					
	***	12. 45	·0984					
15. 12	29. 15		***					
	***	18. 47	·1003					
17. 58	21. 0	22. 2	·0973					
	***	23. 59	·0978					
18. 10	14. 0							
18. 32	20. 35							
18. 46	18. 35							
19. 15	20. 25							
20. 16	16. 40							
23. 59	26. 0							
Apr. 17		Apr. 17		Apr. 17				
0. 30	22. 26. 30	0. 44	·0988	1. 0	·01050	1. 40	52 ·0	52 ·0
5. 52	19. 0	4. 13	·0975	1. 50	·00910	3. 40	57 ·0	62 ·0
	***	4. 42	·0983	4. 0	·01056	9. 40	60 ·0	63 ·0
10. 0	22. 0		***	8. 30	·01027	22. 40	53 ·0	57 ·0
	***	6. 2	·0970	11. 0:	·00980			
17. 30	23. 30	19. 17	·0990	17. 37	·01570			
	***	21. 12	·0960	23. 0	·01490			
19. 51	18. 0	23. 16	·0978					
	***							
21. 20	20. 35							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 17								
h m	° ′ ″	h m		h m		h m	°	°
21. 45	22. 25. 5							
23. 21	25. 25							
Apr. 18		Apr. 18		Apr. 18				
0. 0	22. 25. 25	0. 0	·0986	0. 0	·01511	9. 29	49 ·0	54 ·0
3. 37	25. 0		***	1. 0	·01524	21. 40	47 ·0	51 ·0
	***	11. 47	·1006	3. 30	·01565			
8. 0	22. 45	12. 4	·1014	7. 10	·01510			
	***	12. 32	·1012	9. 0	·01551			
12. 32	21. 35	12. 45	·1005	15. 0	·01425			
13. 1	23. 20		***	20. 0	·01394			
	***	18. 40	·1011	21. 10	·01373			
14. 14	19. 15	19. 30	·0986	22. 0	·01390			
	***	21. 19	·0986	23. 0	·01360			
15. 2	23. 0	23. 59	·0972					
	***							
15. 45	20. 0							
	***							
18. 0	21. 5							
	***							
19. 18	27. 35							
	***							
20. 32	27. 5							
	***							
21. 0	24. 0							
	***							
23. 59	27. 25							
Apr. 19		Apr. 19		Apr. 19				
0. 31	22. 25. 50	0. 50	·0978	0. 40	·01175	1. 42	52 ·5	56 ·5
1. 1	28. 0	2. 33	·0977	1. 30	·01074	3. 40	55 ·0	58 ·0
2. 44	25. 0	3. 16	·0991	4. 6	·00763	9. 40	54 ·0	57 ·0
	***	4. 57	·0978	6. 15	·00765	21. 45	45 ·0	48 ·8
4. 58	22. 55		***	8. 10	·00798			
5. 31	25. 25	5. 43	·1000	9. 45:	·00762			
6. 14	21. 0		***	16. 51	·01422			
8. 23	21. 30	6. 14	·0977	21. 15	·01300			
8. 58	19. 50		***	22. 45	·01330			
	***	8. 21	·0990	23. 45	·01270			
9. 52	12. 25		***					
	***	9. 8	·0986					
10. 30	21. 0		***					
	***	9. 32	·0996					
13. 30	24. 5	9. 43	·0991					
15. 3	24. 0	10. 2	·1007					
15. 39	26. 5	10. 49	·0984					
16. 1	23. 35	14. 15	·1002					
16. 6	27. 0	16. 1	·1002					
16. 39	20. 25	16. 5	·1013					
17. 36	18. 5		***					
17. 52	20. 10	18. 42	·1015					
18. 10	18. 30	19. 31	·0975					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 19		Apr. 19						
h m	° ′ ″	h m		h m		h m	°	°
18. 50	22. 21. 0	20. 37	·0988					
19. 39	20. 35		***					
20. 0	18. 20	21. 33	·0977					
20. 27	20. 25	23. 17	·0977					
	***	23. 31	·0969					
21. 13	16. 15							
	***							
23. 59	28. 20							
Apr. 20		Apr. 20		Apr. 20				
0. 5	22. 30. 50	0. 2	·0988	1. 22	·01043	1. 40	52 ·0	54 ·5
0. 15	28. 30	0. 15:	·0966	2. 3	·00952	3. 40	57 ·0	62 ·0
1. 0	35. 25	0. 45	·0933	2. 10	·00925	10. 18	54 ·0	59 ·0
	(†)	0. 57	·0961	2. 15	·00950	21. 40	48 ·0	50 ·5
3. 40	47. 43*		***	2. 21	·00915			
	(†)	2. 8	·0965	2. 34	·00895			
4. 13	37. 25	2. 11	·0985	2. 50	·00899			
4. 37	38. 0	2. 15	·0973	2. 59	·00942			
4. 54	32. 35	2. 22	·0987	3. 12	·00934			
	***	2. 32	·0976	3. 33	·01064			
5. 24	34. 0	2. 42	·1006	3. 42	·01050			
	***	2. 46	·0979	4. 8	·01187			
6. 47	22. 18. 5	2. 53	·1018	6. 20	·00952			
7. 10	21. 53. 30	3. 2	·0987	6. 35	·00983			
	***	3. 6	·1013	6. 40	·00980			
7. 32	22. 2. 25	3. 15	·0975	6. 43	·01004			
	***		***	6. 50	·01005			
7. 39	21. 59. 5	3. 32	·1013	7. 5	·01111			
7. 53	22. 0. 30		***	7. 31	·00985			
8. 31:	21. 59. 0	3. 59	·0951	7. 58	·00988			
	22. 17. 50		***	10. 0	·00896			
	***	4. 16	·0990	11. 51	·01005			
8. 40	16. 20		***	12. 20	·00987			
	***	4. 37	·0945	12. 43	·00801			
9. 21	24. 40		***	14. 20	·01150			
	***	5. 42	·0985	14. 43	·01085			
11. 30	25. 0	5. 58	·0971	15. 44	·01213			
	***	6. 9	·0982	15. 58	·01161			
12. 15:	21. 10	6. 22	·0964	16. 21	·01220			
	***	6. 31	·0990	16. 39	·01137			
12. 39	34. 30	6. 39	·0979	16. 45	·01165			
13. 8	5. 25	6. 49	·0994	17. 0	·01145			
13. 28:	11. 10		***	17. 22	·00993			
13. 37	9. 25	8. 30	·0960	17. 39	·01130			
13. 49	15. 35		***	18. 0	·01030			
13. 59:	12. 55	11. 51	·0986	18. 22	·01108			
14. 30	28. 0	12. 16	·0972	18. 34	·01081			
15. 19	7. 30	12. 30	·1023	19. 20	·01035			
15. 46	20. 40	12. 59	·0936	19. 42	·01120			
	***	13. 5	·0976	19. 59	·01100			
16. 9	12. 20		***	20. 15	·01140			
	***	14. 28	·0957	20. 27	·01122			
					***			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 20	° ′ ″	Apr. 20		Apr. 20		h m	°	°
h m		h m		h m				
16. 29	22. 20. 55	14. 47	·0991	22. 56	·01450			
16. 33	14. 20	15. 9	·0968		***			
16. 41	24. 0		***	23. 30	·01431			
16. 55	14. 20	15. 42	·0971		***			
17. 2	22. 0	16. 4	·0932	23. 52	·01462			
	***	16. 29	·0964					
17. 25	14. 10	16. 35	·0953					
17. 30	37. 40	16. 58	·0997					
17. 50	14. 0	17. 31	·0915					
17. 54	18. 0	18. 10	·0975					
18. 0	11. 35	18. 37	·0977					
	***	19. 31	·0913					
18. 17	32. 5	20. 28	·0936					
	***	20. 59	·0914					
18. 30	29. 25	22. 28	·0913					
18. 44	43. 0		***					
18. 50	36. 35	22. 57	·0944					
	***	23. 8	·0929					
19. 6	42. 20	23. 15	·0939					
	***	23. 18	·0928					
19. 32	24. 0	23. 27	·0935					
19. 38	28. 0	23. 32	·0918					
	***	23. 41	·0927					
19. 58	21. 30	23. 47	·0917					
	***	23. 59	·0937					
20. 13	34. 5							
20. 20	29. 30							
	***							
20. 32	32. 0							
	***							
21. 0	22. 10							
	***							
22. 22	37. 25							
	***							
22. 34	30. 0							
	***							
22. 50	32. 35							
23. 29	29. 30							
23. 45	37. 5							
23. 59	37. 0							
Apr. 21		Apr. 21		Apr. 21				
1. 0	22. 34. 0	0. 17	·0953	1. 39	·01310	1. 40	54 ·5	57 ·5
	***		***	1. 45	·01260	3. 40	58 ·0	62 ·0
1. 57	38. 30	0. 49	·0934	2. 15	·01285	9. 40	59 ·5	64 ·0
	***	0. 57	·0963	2. 38	·01262	21. 40	51 ·0	55 ·0
2. 30	30. 25	1. 41	·0945	2. 45	·01243			
2. 41	35. 10	1. 54	·0936	2. 50	·01268			
3. 13	25. 5	2. 15	·0967	2. 54	·01250			
3. 32	29. 15	2. 26	·0955	3. 6	·01262			
3. 40	25. 0	2. 45	·0949	3. 26	·01180			
3. 54	29. 15	3. 1	·0994	3. 33	·01197			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 21	° ′ ″	Apr. 21		Apr. 21		h m	°	°
h m		h m		h m				
4. 4	22. 26. 5	3. 5	·0983	3. 40	·01190			
4. 27	33. 15	3. 12	·0994	3. 50	·01203			
	***	3. 18	·0985	4. 14	·01180			
5. 12	20. 35	3. 31	·1008	4. 30	·01203			
5. 22	27. 15		***	4. 51	·01181			
5. 28	23. 55	4. 12	·0971	5. 10	·01196			
5. 31	27. 0	4. 23	·0989	5. 31	·01101			
5. 40	21. 0	4. 40	·0965	5. 40	·01137			
6. 2	27. 0	4. 44	·0973	6. 8	·01064			
6. 19	3. 0	4. 46	·0959	6. 16	·01160			
6. 36	25. 15	5. 7	·1001	6. 41	·01032			
6. 45	17. 30	5. 20	·0971	8. 13	·00917			
	***	5. 40	·0992	8. 22	·00924			
7. 20	27. 30	5. 45	·0982	8. 50	·00845			
	***	5. 47	·0992	9. 30	·00807			
7. 30	19. 0		***	9. 45	·00824			
	***	6. 8	·0943	10. 10	·00781			
7. 57	25. 0	6. 17	·1025	10. 32	·00819			
8. 21	6. 35	6. 33	·0962	11. 3	·00700			
8. 33	19. 35	6. 45	·0981	12. 45	·00953			
8. 51	1. 0	7. 2	·0955	13. 8	·00962			
	***	7. 3	·0965	17. 0	·01522			
9. 19	19. 40	7. 14	·0951	19. 30	·01535			
	***	7. 23	·0981	22. 0	·01561			
9. 39	15. 30	7. 38	·0991	23. 50	·01444			
9. 44	20. 0	7. 46	·0967					
	***	8. 0	·0974					
10. 12	14. 10	8. 4	·0969					
	***	8. 17	·1006					
10. 57	29. 20	8. 33	·0966					
11. 17	13. 0	8. 52	·1010					
	***	9. 2	·0990					
11. 28	20. 5		***					
	***	9. 10	·1000					
11. 32	16. 25	9. 30	·0959					
	***		***					
11. 51	23. 25	13. 20	·0942					
	***		***					
12. 2	15. 10	13. 57	·0979					
	***		***					
12. 15	19. 0	16. 44	·0966					
	***		***					
12. 28	14. 0	18. 31	·0986					
	***	21. 21	·0959					
12. 31	17. 40	21. 45	·0971					
	***	22. 15	·0954					
12. 40	15. 0		***					
	***	23. 52	·0944					
13. 30	26. 0	23. 59	·0959					
13. 31	22. 0							
	***							
13. 57	29. 20							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 21								
h m	° ′ ″	h m		h m		h m	°	°
14. 12	22. 25. 35							
14. 18	28. 0 ***							
15. 30	23. 0 ***							
16. 0	26. 35 ***							
18. 4	21. 45							
18. 10	24. 0 ***							
20. 40	13. 5 ***							
23. 59	25. 30							
Apr. 22		Apr. 22		Apr. 22				
0. 0	22. 25. 25 ***	0. 3	·0943 ***	1. 30	·01090	1. 40	59 ·0	63 ·0
				2. 1	·00984	3. 40	62 ·5	67 ·0
1. 0	30. 0	2. 32	·0972	3. 28	·01028	9. 40	63 ·0	67 ·0
1. 14	27. 0	2. 52	·0949 ***	6. 20	·00975	21. 40	56 ·0	58 ·5
2. 8	30. 10 ***			7. 15	·00939			
		6. 9	·0981	8. 24	·00975			
5. 32	23. 10 ***	6. 28	·1000 ***	10. 2	·00920			
				10. 18	·00965			
6. 13	15. 10	7. 13	·0981 ***	10. 45	·00910			
6. 47	19. 0			11. 38	·00934			
7. 9	17. 5 ***	9. 24	·0977	12. 20	·01060			
		9. 36	·0984	13. 40	·01106			
9. 13	20. 10 ***	10. 3	·0949	14. 11	·01047			
		10. 20	·1060	14. 21	·01074			
9. 50	25. 10	10. 49	·1006	14. 29	·01044			
10. 14	1. 5	11. 46	·0946	14. 41	·01082			
10. 52	26. 5	12. 13	·0975	14. 50	·01065			
11. 16	25. 5	13. 28	·0974	16. 12	·01220			
11. 31	28. 0	13. 50:	·0993 ***	17. 2	·01332			
12. 3	10. 50			17. 15	·01309			
12. 24:	16. 10 ***	14. 58	·0935 ***	17. 39	·01341			
				17. 54	·01319			
12. 51:	13. 0 ***	16. 0	·0988 ***	22. 45	·01601			
				23. 50	·01521			
13. 20	18. 20 ***	17. 17	·0928 ***					
14. 10	10. 35	19. 46	·0961 ***					
14. 39	29. 5							
14. 57	22. 15 ***	21. 14	·0934					
		21. 52	·0940					
15. 31	26. 5 ***	22. 32	·0918					
		23. 35	·0949 ***					
15. 52	21. 0							
16. 0	25. 25							
16. 10	22. 35 ***							
17. 8	35. 20							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 22								
h m	° ′ ″	h m		h m		h m	°	°
17. 11	22. 32. 0 ***							
17. 35	43. 15 ***							
17. 53	34. 0 ***							
18. 0	38. 0 ***							
18. 12	31. 0 ***							
18. 28	32. 55							
18. 32	30. 10							
18. 45	32. 30 ***							
20. 9	20. 30							
20. 15	23. 0 ***							
20. 38	17. 0 ***							
21. 37	21. 30 ***							
22. 1	20. 0 ***							
23. 59	27. 0 ***							
Apr. 23		Apr. 23		Apr. 23				
0. 50	22. 28. 5 ***	1. 3	·0935 ***	1. 10	·01332	1. 40	62 ·0	67 ·0
				1. 30	·01260	3. 40	65 ·0	70 ·0
2. 18	28. 55 ***	1. 15	·0949	2. 38	·01040	9. 40	62 ·3	68 ·0
		4. 38	·0958	3. 20	·01055 ***	21. 40	52 ·0	56 ·5
5. 30	21. 10 ***	5. 5	·0982					
		5. 31	·0965	6. 40	·01007 ***			
5. 52	23. 0 ***	5. 50	·0989					
		6. 9	·0974	7. 6	·01049 ***			
6. 6	20. 35 ***	6. 18	·0982					
		6. 46	·0961 ***	9. 32	·01003			
7. 0	13. 10 ***			9. 45	·01025			
		7. 43	·1008	10. 9:	·01020			
7. 7	15. 0	8. 2	·0966	15. 25	·01594			
7. 27	5. 0	8. 7	·0979	15. 43	·01573			
7. 31	7. 20 ***	8. 20	·0953 ***	17. 30	·01547			
				18. 10	·01560			
7. 37	5. 5 ***	10. 11	·0939 ***	20. 30	·01510			
				23. 15	·01630			
7. 49	14. 35	11. 30	·0965					
8. 0	8. 5	11. 50	·0955 ***					
8. 9	13. 0							
8. 20	8. 0 ***	17. 0	·0987					
		17. 51	·0970					
9. 1	14. 25 ***	20. 17	·0968					
		20. 59	·0957					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 23		Apr. 23						
h m	° ′ ″	h m		h m		h m	°	°
9. 40	22. 10. 0	21. 31	·0976					
10. 1	13. 0		(†)					
10. 19	10. 35							
	***							
10. 48:	16. 0							
	***							
12. 28	25. 20							
	***							
12. 37	23. 50							
	***							
14. 32	21. 0							
	***							
15. 15	28. 5							
	***							
16. 1	24. 0							
	***							
16. 58	25. 10							
	***							
17. 45	21. 55							
	***							
18. 46	26. 0							
	***							
20. 21	19. 20							
20. 39	21. 50							
21. 0	17. 10							
	(†)							
22. 58	18. 30							
	***							
23. 44	22. 15							
Apr. 24		Apr. 24		Apr. 24				
0. 0	22. 22. 45	0. 0	·0949	0. 15	·01585	1. 40	57 · 0	64 · 0
	***	1. 0	·0946	8. 32	·00942	3. 40	59 · 5	66 · 0
0. 30	27. 0	2. 30	·0976	9. 0	·00880	9. 40	59 · 5	64 · 0
	***	3. 8:	·0965	16. 20	·01540	22. 40	50 · 0	55 · 0
1. 8	24. 35		***	19. 30	·01499			
	***	5. 3	·1004	22. 35	·01540			
2. 32	30. 0	5. 28	·0989					
	***	6. 0	·0997					
4. 11	28. 0	6. 22:	·0979					
	***		***					
4. 50	18. 15	8. 20	·0983					
4. 56	20. 35	8. 32	·1013					
5. 0	18. 30	8. 52	·0983					
	***	12. 15	·0990					
6. 1	23. 25	12. 27	·1006					
6. 23	21. 0	13. 30	·0994					
7. 2	19. 35		***					
8. 14	20. 35	21. 15	·0983					
8. 28	17. 20	22. 27	·0951					
8. 43	26. 40	23. 30	·0953					
9. 10	21. 0							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 24								
h m	° ′ ″	h m		h m		h m	°	°
12. 30	22. 24. 25							
	***							
13. 0	30. 20							
	***							
13. 28	25. 10							
	***							
13. 48	26. 30							
	***							
14. 49	16. 5							
	***							
15. 13	15. 40							
	***							
16. 0	21. 50							
	***							
19. 0	20. 30							
	***							
20. 59	14. 55							
	***							
23. 31	26. 30							
	***							
Apr. 25		Apr. 25		Apr. 25				
0. 0	22. 27. 10	0. 13	·0965		(†)	9. 40	57 · 0	62 · 5
	***	3. 16	·0998	9. 40	·01226	21. 40	50 · 5	55 · 0
2. 44	31. 20		***		(†)			
	***	6. 14	·0991	21. 40	·00498			
3. 33	23. 30		***		(†)			
	***	6. 42	·1025					
6. 20	22. 0		***					
6. 40	13. 0	7. 48	·0990					
	***	14. 57	·0988					
7. 49	18. 30	15. 15	·0997					
	***	18. 0	·0989					
9. 58	19. 40	22. 27	·0974					
	***	23. 59	·0973					
12. 45	25. 0							
	***							
13. 16	23. 10							
	***							
13. 58	27. 50							
	***							
14. 50	23. 10							
	***							
15. 9	27. 0							
	***							
15. 58	20. 5							
	***							
18. 40	20. 25							
	***							
18. 54	18. 10							
	***							
19. 48	17. 15							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 25	° ′ ″	h m		h m		h m	°	°
20. 30	22. 16. 5							
	***							
23. 39	25. 35							
	***							
Apr. 26		Apr. 26		Apr. 26				
0. 5	22. 26. 0	0. 20	·0973	0. 40	·01374	1. 40	56 ·5	61 ·0
0. 55	39. 25	0. 44	·0981	3. 52	·00850	3. 40	59 ·0	65 ·0
	***	1. 13	·0974	5. 22	·00924	9. 40	61 ·5	66 ·0
2. 45	31. 0	2. 44	·0990	7. 30	·00886	21. 40	49 ·5	54 ·0
	***	4. 0	·0971	9. 0	·00905			
4. 46	20. 0	4. 31	·0997	9. 45:	·00875			
	***		***	16. 15	·01560			
7. 47	20. 0	6. 44	·0975	21. 30	·01490			
	***	7. 20	·0987	23. 0	·01512			
8. 34	12. 20	8. 27	·0979					
8. 37	13. 55	8. 57	·0987					
8. 45	13. 5	9. 50	·0976					
	***	13. 24	·0987					
9. 35	23. 20	14. 3	·0988					
	***	15. 4	·0977					
13. 46	23. 40	16. 30	·0988					
	***	16. 59:	·0979					
14. 5	25. 10	18. 17	·0994					
	***	22. 2	·0972					
15. 25	23. 15	23. 59	·0975					
	***							
16. 8	26. 0							
	***							
16. 35	25. 0							
	***							
17. 5	26. 5							
	***							
20. 11	18. 5							
	***							
21. 15	17. 25							
	***							
23. 59	24. 50							
	***							
Apr. 27		Apr. 27		Apr. 27				
0. 52	22. 26. 40	0. 30	·0980	1. 0	·01465	1. 40	53 ·0	57 ·0
	***	3. 1	·0979	2. 30	·01381	3. 40	55 ·0	59 ·5
3. 0	26. 5		***	7. 30	·00999	9. 40	58 ·0	63 ·0
	***	4. 0	·0998	8. 15	·00985	21. 40	51 ·8	54 ·0
3. 50	21. 45		***	10. 40:	·00813			
	***	5. 0	·0990	18. 54	·01495			
5. 0	24. 0		***	21. 10	·01471			
	***	5. 33	·1000	22. 10	·01486			
5. 42	22. 0	5. 45	·0995	23. 45	·01375			
	***		***					
6. 30	21. 5	18. 30	·0995					
	***							

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 27	° ′ ″	Apr. 27		h m		h m	°	°
15. 30	22. 22. 30	18. 57	·0980					
	***	23. 58	·0963					
16. 20	26. 20							
	***							
17. 28	21. 40							
	***							
17. 53	23. 30							
	***							
20. 10	14. 10							
	***							
22. 9	24. 0							
	***							
23. 59	26. 25							
Apr. 28		Apr. 28		Apr. 28				
1. 2	22. 28. 0	0. 1	·0966	1. 30	·01130	1. 40	57 ·0	61 ·0
2. 15	30. 0	1. 0	·0964	3. 15	·00865	3. 40	60 ·0	65 ·0
	***	2. 3	·0972	4. 15	·00905	9. 40	62 ·0	66 ·8
3. 27	25. 30		***	7. 10	·00855	21. 40	56 ·0	60 ·5
	***	3. 19:	·0956	8. 20	·00922			
9. 39	20. 30		***	10. 14:	·00873			
	***	7. 8	·0975	20. 15	·01627			
10. 0	18. 5	7. 47	·0964	23. 50	·01520			
	***	9. 37	·0973					
11. 15	17. 30	10. 3	·0985					
	***	20. 29	·0981					
13. 0	22. 25	22. 14	·0975					
	***	22. 31	·0986					
18. 30	21. 0	23. 59	·0973					
	***							
20. 0	17. 20							
	***							
23. 59	26. 20							
	***							
Apr. 29		Apr. 29		Apr. 29				
1. 0	22. 27. 30	0. 58	·0979	0. 30	·01431	1. 40	59 ·5	65 ·0
	***		***	2. 30	·01329	3. 40	61 ·5	66 ·0
2. 9	29. 5	9. 32	·1005	7. 10	·01038	9. 42	63 ·5	68 ·0
	***	11. 0	·0985	7. 45	·01040	21. 40	60 ·0	63 ·5
9. 19	21. 10	13. 20	·0992	9. 57:	·00935			
9. 33	19. 20	15. 4	·0981	17. 35	·01360			
	***	16. 10	·0995	22. 0	·01498			
14. 12	19. 5		***	23. 58	·01479			
	***	21. 17	·0979					
15. 30	21. 50	23. 23	·0947					
	***							
18. 45	19. 45							
	***							
21. 0	17. 25							
	***							
23. 59	29. 30							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Readings of Thermometers. Göttingen Mean Solar Time.	Of H. F. Magnet.	Of V. F. Magnet.
Apr. 30	° ′ ″	Apr. 30		Apr. 30				
h m		h m		h m		h m	°	°
0. 30	22. 31. 0	0. 23	·0948	0. 30	·01474	1. 40	61 ·0	64 ·0
	***	2. 27	·0973	2. 27	·01410	3. 40	63 ·0	68 ·0
6. 0	21. 5		***	6. 43	·00966	9. 40	64 ·5	69 ·0
7. 30	19. 10	4. 31	·0963	7. 51	·01038	21. 40	57 ·0	61 ·5
8. 10	14. 0		***	9. 40:	·00989			
8. 29	16. 25	5. 2	·0974	17. 30	·01716			
9. 25	15. 30		***	22. 0	·01620			
	***	6. 12	·0962	23. 40	·01651			
12. 0	21. 20		***					
	***	8. 5	·0982					
12. 42	18. 20	8. 42	·0958					
	***	9. 46	·0953					
13. 6	21. 30	12. 57	·0984					
	***	14. 35	·0963					
14. 30	18. 35	17. 38	·0966					
	***	18. 5	·0983					
15. 32	21. 35	19. 3	·0986					
	***	19. 44	·0982					
16. 30	20. 25	23. 30	·0943					
	***							
17. 48	22. 25							
	***							
18. 57	16. 0							
19. 30	18. 40							
20. 0	16. 25							
21. 0	18. 30							
21. 25	16. 5							
	***							
23. 59	28. 30							
May 1		May 1		May 1				
1. 0	22. 31. 30	0. 15	·0953	1. 10	·01650	1. 44	59 ·0	64 ·0
	***	1. 0	·0952	2. 0:	·01610	3. 40	60 ·0	65 ·8
4. 0	28. 5		***	11. 0:	·01079	9. 40	62 ·0	66 ·0
	***	4. 0	·0966	12. 40:	·01230	23. 4	51 ·0	57 ·7
5. 2	30. 0		***	16. 15	·01573			
	***	5. 5	·0986	16. 28	·01570			
6. 58	21. 0		***	16. 40	·01590			
	***	6. 30	·0957	19. 3	·01579			
8. 58	20. 0		***	21. 0	·01535			
	***	7. 40	·0978		***			
10. 41	26. 20	7. 57	·0973	23. 15	·01558			
	***	8. 5	·0980					
13. 10	15. 0	8. 32	·0980					
	***	8. 50:	·0974					
13. 49	17. 5	9. 3	·0978					
	***	9. 34	·0972					
14. 30	12. 30	9. 50	·0978					
	***		***					
15. 24	12. 5	10. 42	·0982					
	***	11. 12	·0974					
16. 6	16. 10		***					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Readings of Thermometers. Göttingen Mean Solar Time.	Of H. F. Magnet.	Of V. F. Magnet.
May 1	° ′ ″	May 1						
h m		h m		h m		h m	°	°
16. 30	22. 23. 0	12. 18	·0968					
	***		***					
17. 44	18. 0	13. 15	·0989					
	***		***					
18. 51	19. 25	14. 4	·0966					
	***		***					
19. 27	27. 0	15. 55	·0974					
	***	16. 0	·0978					
19. 52	25. 0	16. 4	·0970					
	***	16. 9	·0975					
20. 8	28. 50	16. 30	·0957					
	***	16. 38	·0966					
21. 10	20. 25	17. 4	·0957					
	***		***					
21. 42	24. 35	18. 30	·0972					
	***		***					
22. 0	21. 30	19. 45:	·0931					
	***		***					
23. 13	29. 0	20. 31	·0963					
	***		***					
		22. 42	·0932					
		23. 0	·0917					
		23. 30	·0917					
		23. 59	·0927					
May 2		May 2		May 2				
0. 0	22. 32. 0	0. 15	·0934	0. 38	·01576	11. 58	52 ·0	58 ·0
	***		***		***	21. 40	49 ·3	53 ·5
0. 14	33. 0	0. 40	·0921	1. 31	·01629			
	***	1. 2	·0954		***			
0. 58	28. 5		***	3. 34	·01514			
	***	1. 40	·0965	4. 10	·01523			
1. 40	31. 15		***	4. 13	·01501			
	***	2. 24	·0938		***			
1. 58	28. 40		***	5. 0	·01481			
	***	3. 17	·0961	7. 32	·01320			
3. 10	31. 35		***	7. 58	·01324			
	***	3. 34	·0955		***			
3. 39	28. 0		***	10. 0:	·01235			
3. 45	28. 35	4. 10	·0988	12. 30	·01302			
	***		***	14. 54	·01582			
4. 16	21. 10	4. 40:	·0967	15. 0	·01574			
4. 31	22. 50	5. 5	·0980	18. 30	·01527			
5. 0	19. 35		***	20. 0	·01508			
5. 52	23. 15	6. 15:	·0971	22. 15	·01505			
7. 50	16. 0		***	23. 10	·01446			
8. 1	19. 20	7. 24	·0979					
8. 12	13. 25	7. 36	·0971					
8. 18	14. 50	8. 0	·0982					
8. 28	13. 0	8. 5	·0977					
8. 38	18. 0	8. 15	·0991					
8. 42	16. 45	8. 19	·0986					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 2		May 2						
h m	° ′ ″	h m		h m		h m	°	°
9.30	22.21. 0	8.30	·0995					
	***	8.35	·0985					
11.35	23. 0		***					
	***	10. 0	·0970					
11.49	29.15		***					
	***	11.36	0972					
12.10	22.35		***					
	***	12.15	·1000					
12.28	28.20	12.51	·0973					
	***	13. 3	0974					
13.21	22.50	13.17	·0965					
	***	15.45	·0982					
13.45	26. 0	16.12	·0973					
	***	18. 2	·0975					
14.20	24. 0	23.13	·0951					
	***	23.59	·0950					
15. 3	24.25							
	***							
15.36	28. 0							
	***							
20.30	14. 5							
	***							
23.59	27.25							
May 3		May 3		May 3				
0. 2	22.28. 5	0.13	·0952	0. 5	·01353	1.40	56 ·0	59 ·0
2.30	30.20		***	0.30	·01300	3.40	60 ·0	63 ·5
	***	5.44	·0970	2.43	·00890	9.38	61 ·0	65 ·0
7. 0	21.25		***	4.30	·00955	21.40	50 ·0	55 ·0
	***	8.21	·0964	8. 0	·00853			
14.50	23.35	9. 9	·0973	9. 0:	·00871			
	***	9.57	·0968	15.34	·01571			
15. 6	25.45		***	21.30	·01463			
	***	18.34	·0990	22.30	·01480			
15.40	23.35	18.47	·0982	23.30	·01402			
	***		***					
19. 0	20. 5	22.42	·0953					
	***		***					
20.39	14. 0	23.59	·0955					
	***							
23.28	25.35							
May 4	(†)	May 4		May 4				
6.50	22.19. 0	0.15	·0957	0.45	·01213	1.40	57 ·0	61 ·4
9.20	17.30		***	1.30	·01100	3.40	61 ·0	63 ·0
11.55	22.10	1.32	·0963	2.39	·00874	9.40	60 ·0	63 ·0
	***	1.39	·0971	2.42	·00893	21.40	53 ·0	55 ·4
13.13	21. 0		***	2.45	·00842			
	***	2.35	·0967	2.49	·00865			
18. 0	19.25	2.42	·0995	7.30	·00836			
	***	2.45	·0971	8.30	·00883			
20.18	12.30	2.46	·0978	9.40:	·00875			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 4		May 4		May 4				
h m	° ′ ″	h m		h m		h m	°	°
23.59	22.22.25	3. 0	·0968	16.18	·01585			
	***	3.50	·0969	19.40	·01546			
		5.10	·0969	20.30	·01513			
			***	23. 0	·01511			
		6.33	·0979	23.55	·01425			
			***					
		8. 8	·0978					
			***					
		18.32	·1007					
		18.45	·0995					
			***					
		22.30	·0968					
		23.47	·0967					
May 5		May 5		May 5				
1.15	22.19.20	0. 6	·0972	0.40	·01428	1.40	58 ·3	62 ·4
	***	2. 5	·0981	1.30	·01135	3.40	61 ·5	65 ·0
2. 4	20.35		***	3.12	·00845	9.40	63 ·0	67 ·5
	***	2.17	·0971		***	21.40	54 ·8	57 ·5
8.20	8.55		***	7.10	·00912			
9. 0	10.20	5. 0:	·0974	8.15	·00950			
9.35:	5. 0	5.21	·0991	10.15:	·00925			
	***	5.33:	·0978	17. 0	·01630			
12. 0	13.30	6. 2	·0993	18.45	·01564			
	***	6.16	·0986	20.15	·01612			
15. 5:	12. 0		***	22.45	·01580			
	***	6.43	·1000	23.50	·01530			
15.45:	14.35		***					
	***	7. 9	·0976					
16.20:	11.10	8. 0	·0972					
	***	8.57	·0981					
17.52	11. 5	10.27	·0974					
	***		***					
18.43	12.35	17.31	·1000					
	***	18. 0:	·0991					
20.10	4.40	19. 8	·0996					
	***	23. 7	·0971					
23.59	13.45	23.57	·0975					
May 6		May 6		May 6				
1. 0	22.15.25	0.30	·0980	1.30	·01356	1.40	59 ·0	61 ·5
8.30	10.30	5.10	·0987	7.15	·00846	3.40	60 ·0	63 ·0
8.46	12. 0	5.22	·0997	9. 0	·00875	9.40	60 ·9	65 ·0
	***	6. 4	·0988	9.42	{ ·00860	21.40	55 ·0	59 ·0
9.35	8. 0	9. 0	·0990		{ ·01130			
10.30	10.55	9.30	·0978	16.42	·01640			
10.54	7. 5	10.31	·0966	17.20	·01626			
11.19	7. 5	11. 2	·0987	18.20	·01660			
	***	11.27:	·0981	20.50	·01631			
11.41	10.50	11.48	·0990	21.40	{ ·01645			
	***	12.21	·0984		{ ·01570			
12. 0:	7.10	13. 5	·0994	23. 0	·01561			
	***		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 6		May 6		May 6				
h m	° ′ ″	h m		h m		m m	°	°
12. 57:	22. 12. 25	14. 2:	·0987	23. 40	·01480			
	***	14. 42	·1003					
13. 49:	9. 20	15. 45	·0989					
14. 18:	14. 0		***					
15. 0	10. 0	16. 42	·0996					
16. 7	13. 10		***					
17. 31	10. 10	18. 11	·0974					
	***		***					
18. 40	15. 30	18. 50	·0988					
	***	20. 52	·0963					
19. 30	11. 0	21. 15	·0971					
19. 50	12. 35	22. 24	·0961					
	***	22. 58	·0965					
20. 58	9. 10	23. 22	·0956					
21. 34	13. 50	23. 40:	·0964					
	***	23. 51:	·0957					
22. 30	10. 55							
	***							
23. 59	14. 0							
	***							
May 7		May 7		May 7				
0. 18	22. 18. 0	0. 10	·0965	0. 25	·01342	1. 40	61 ·3	65 ·5
1. 0	19. 45	0. 42	·0960	1. 0	·01241	3. 40	64 ·0	68 ·0
	***	1. 22:	·0939	2. 54	·00931	9. 40	65 ·0	69 ·0
7. 22	10. 0	2. 22	·0969		***	21. 40	57 ·5	61 ·0
	***		***	5. 33	·00950			
7. 45	3. 45	3. 31	·0979		***			
	***	4. 2	·0971	6. 15	·00925			
8. 32	12. 30		***	6. 31	·00936			
	***	5. 32	·0987	6. 48	·00911			
8. 54	10. 0		***	8. 10	·00883			
	***	6. 25	·0973	9. 0:	·00908			
9. 23	14. 0	6. 30	·0989	17. 21	·01691			
	***	6. 42	·0972		***			
9. 33	12. 0	7. 27	·0985	19. 50	·01636			
	***	8. 14	·0973	22. 20	·01681			
10. 2	12. 5		***	22. 31	·01670			
	***	9. 14	·0973	23. 45	·01610			
10. 10	16. 0	9. 28	·0968					
	***	9. 44	·0981					
10. 27	9. 50	10. 6	·0974					
	***	10. 33	·0984					
10. 44	16. 0		***					
	***	12. 30	·0991					
13. 33	9. 40		***					
	***	13. 8	·0981					
14. 23	14. 25		***					
	***	19. 22	·1000					
14. 41	11. 25		***					
	***	19. 46	·0983					
15. 23	10. 20	19. 55	·0991					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 7		May 7						
h m	° ′ ″	h m						
16. 0:	22. 14. 0	20. 28	·0977					
	***	21. 38	·0977					
16. 28	9. 30	22. 27	·0969					
	***	22. 43:	·0975					
16. 44	13. 25	23. 6:	·0963					
	***	23. 31:	·0972					
16. 57	10. 35	23. 58	·0957					
	***		(†)					
17. 13	10. 0							
	***							
17. 31	12. 5							
	***							
17. 52	7. 10							
	***							
18. 10	11. 25							
	***							
18. 53	7. 35							
	***							
19. 19	8. 30							
	***							
20. 0	12. 0							
	***							
20. 32	10. 0							
	***							
21. 9	13. 35							
	***							
22. 32	12. 0							
	***							
23. 59	17. 0							
May 8		May 8		May 8				
0. 36	22. 21. 0	2. 11	·0963	0. 25	·01485	1. 40	63 ·0	68 ·0
0. 53	23. 55		***	1. 0	·01430	3. 40	67 ·0	72 ·0
1. 3	19. 35	2. 45	·0953		***	9. 40	69 ·0	74 ·0
	***	2. 59	·0971	3. 11	·01030	22. 40	61 ·0	63 ·5
2. 0	19. 0		***		***			
	***	3. 9	·0961	3. 20	·01053			
3. 24	21. 40	3. 16	·0979		***			
3. 33	19. 30	3. 32	·0953	3. 32	·01044			
3. 59	21. 0		***		***			
	***	3. 59	·0977	4. 0	·01065			
5. 46	12. 50		***	5. 40	·01038			
6. 30	14. 35	5. 1	·0948	7. 30	·00954			
8. 30	22. 11. 50		***	8. 40	·00971			
9. 26	21. 59. 50	5. 16	·0961	10. 3:	·00945			
10. 0	22. 10. 0		***	15. 46	·01001			
	***	6. 50	·0954	16. 11	·01573			
11. 29	12. 5		***	22. 0	·01585			
	***	8. 36	·0967	23. 15	·01570			
11. 42	18. 0	9. 6	·0955					
	***	9. 26	·0973					
11. 57	15. 10		***					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 8		May 8						
h m	° ′ ″	h m		h m		h m	°	°
12. 20	22. 19. 0	9. 47	·0978					
	***	10. 1	·0962					
13. 3	8. 35		***					
	***	11. 45	·0953					
13. 50	17. 10	12. 28	·0975					
	***	12. 45	·0962					
15. 16	10. 0	13. 14:	·0967					
	***	13. 42	·0953					
16. 42	18. 25	14. 29	·0971					
	***		***					
18. 10	9. 30	16. 18	·0953					
	***	16. 45	·0969					
20. 0	5. 10		***					
	***	19. 1	·0983					
23. 27	14. 5		***					
	***	23. 59	·0949					
May 9		May 9		May 9				
0. 0	22. 17. 0	0. 9	·0945	0. 0	·01532	9. 40	71 ·0	75 ·0
	***		***	1. 0	·01460	21. 40	61 ·0	64 ·0
1. 30	19. 5	0. 55	·0961	4. 41	·00913			
	***	0. 57	·0954	6. 0	·00951			
7. 0	10. 25		***	7. 30	·00930			
	***	1. 20	·0950	8. 40	·00966			
7. 32	3. 20		***	10. 30:	·00926			
	***	3. 10	·0973	12. 20	·01012			
8. 17	10. 30	3. 20	·0961	12. 40:	·01008			
	***	4. 18	·0972	17. 5	·01610			
9. 14	10. 5	4. 59:	·0981	20. 27	·01566			
	***	5. 16	·0965	22. 30	·01601			
12. 17	17. 0		***					
	***	7. 20	·0969					
13. 18	10. 35	7. 41	·0988					
	***	7. 50	·0981					
17. 43	13. 0	7. 59	·0986					
	***	8. 16	·0968					
18. 18	16. 20		***					
	***	10. 5	·0961					
19. 21	11. 0		***					
	***	12. 1	·0971					
19. 28	12. 45	12. 18	·0988					
	***	12. 49	·0971					
20. 30	6. 0		***					
21. 16	10. 35	14. 2	·0980					
21. 32	8. 25	14. 42	·0972					
	***		***					
23. 59	14. 15	20. 10	·0985					
			***					
		23. 15	·0957					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 10		May 10		May 10				
h m	° ′ ″	h m		h m		h m	°	°
1. 0	22. 18. 30	1. 40	·0953	0. 50	·01542	1. 40	65 ·0	68 ·0
	***	2. 5	·0966	1. 30	·01493	3. 40	65 ·0	67 ·0
5. 48	11. 55	2. 57	·0967		***	9. 40	62 ·8	67 ·0
	***	3. 15:	·0975	3. 0	·01409	21. 40	56 ·5	58 ·8
6. 45	6. 10	3. 33	·0967		***			
	***	3. 46	·0980	5. 38	·01480			
9. 25	13. 55	3. 59	·0974	5. 52	·01503			
	***	4. 8	·0992		***			
9. 48	6. 20	4. 20	·0972	6. 12	·01489			
	***	5. 2	·0993	6. 26	·01500			
10. 31	14. 50	5. 31	·0977	6. 40	·01497			
	***	5. 51	·1003		***			
11. 0	10. 30	6. 10	·0972	7. 2	·01512			
	***		***	7. 34	·01500			
12. 32	14. 0	6. 38	·0971	8. 30	·01538			
	***		***	9. 44	·01550			
13. 30	23. 0	7. 3	·0996	11. 8	·01640			
	***		***	13. 30:	·01552			
14. 53	11. 25	8. 15	·0982	14. 50	·01470			
	***	9. 53	·1011	15. 30	·01490			
17. 6	24. 0		***	16. 5	·01480			
	***	10. 34	·0985	16. 20	·01488			
18. 5	14. 35	14. 54	·0988	17. 40	·01430			
	***		***	19. 12	·01450			
20. 8	7. 25	15. 16	·0978		***			
	***	15. 47	·0993	20. 30	·01490			
21. 36	8. 35	16. 20	·0973	23. 30	·01460			
23. 59	15. 25		***					
		18. 8	·0985					
		18. 20	·0997					
			***					
		20. 12	·0975					
		22. 0	·0967					
		22. 10	·0979					
		22. 20	·0967					
		22. 28	·0977					
		22. 32	·0969					
		22. 39	·0977					
		23. 8	·0959					
		23. 16	·0965					
		23. 49	·0955					
May 11		May 11		May 11				
0. 39	22. 15. 5	0. 9	·0965	0. 45	·01358	1. 40	61 ·0	65 ·5
	***	0. 47	·0967	1. 30	·01287	3. 40	62 ·0	65 ·0
2. 12	16. 0	1. 3	·0964	7. 0	·00718	9. 40	61 ·5	64 ·0
	***	2. 13	·0951	8. 42:	·00796	21. 40	56 ·5	60 ·0
6. 0	11. 35		***	19. 42	·01474			
	***	4. 43	·0970	19. 44	·01470			
7. 16	11. 30	5. 0:	·0963	19. 55	·01490			
7. 40	8. 0	5. 12	·0969	20. 4	·01480			
8. 2	11. 0	5. 28:	·0965	21. 36	·01432			
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

May 11d to May 22d. Workmen were present in the Observing-room, and caused many losses of Registers for short times during the day hours.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 11		May 11						
h m	° ′ ″	h m		h m		h m	°	°
12. 27	22. 14. 0	5. 41	·0975					
	***	5. 59	·0966					
12. 57	18. 0	6. 51	·0969					
	***	7. 0	·0979					
13. 46	14. 0	7. 31	·0967					
14. 30	13. 25	11. 6	·0973					
15. 54	17. 5	12. 12	·0986					
16. 40	12. 0	13. 20	·0982					
17. 0	13. 55	14. 20	·0990					
17. 42	11. 0	15. 10	·0982					
19. 29	11. 45	16. 12	·0990					
19. 57	7. 35	16. 43	·0979					
23. 59	15. 5	17. 58	·0994					
			***					
		19. 40	·0986					
		21. 35	·0996					
		23. 32	·0983					
May 12		May 12		May 12				
1. 1	22. 24. 30	1. 0	·0972	2. 9	·00865	1. 40	59 ·0	63 ·5
	***	2. 0	·0966	3. 35	·00872	3. 40	61 ·0	66 ·0
3. 15	28. 5	3. 0	·1000	4. 16	·00821	9. 40	62 ·0	67 ·0
3. 51	24. 0	3. 5	·0994	4. 33	·00840	21. 40	60 ·0	64 ·0
4. 30	26. 55	3. 26	·0984	4. 40	·00960			
5. 38	21. 0	3. 36	·0996	6. 42	·00925			
6. 10	22. 35	4. 0	·0973	8. 0	·00960			
	***	4. 15	·0976	10. 10:	·00856			
8. 42	20. 15	4. 40	·1002	18. 58	·01290			
9. 3	21. 10	5. 22	·0984		·01136			
9. 15	18. 30	5. 40	·0998	23. 30	·01060			
9. 30	18. 0		***					
10. 3	22. 0	7. 35	·0982					
10. 28	20. 0		***					
	***	8. 0	·0990					
11. 13	23. 10	8. 27	·0978					
	***		***					
17. 36	21. 30	9. 10	·0975					
17. 47	20. 5	9. 30	·0988					
18. 3	23. 0	10. 4	·0977					
	***	14. 55	·0983					
18. 40	19. 35		***					
	***	18. 20	·0951					
20. 16	17. 25		***					
	***	19. 18	·0960					
23. 59	25. 25		***					
		19. 45	·0974					
			***					
		20. 0	·0966					
			***					
		21. 12	·0960					
			***					
		21. 30	·0954					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	May 12		h m		h m	°	°
		21. 38	·0960					
			***					
		23. 59	·0959					
			***					
May 13		May 13		May 13				
0. 0	22. 25. 40	1. 0	·0965	1. 30	·00983	1. 40	62 ·5	66 ·0
	***		***	4. 40	·00890	3. 40	62 ·0	66 ·4
3. 8	26. 20	3. 45	·0952	6. 0	·00999	9. 40	64 ·0	68 ·0
3. 24	28. 0		***	8. 0:	·00914	21. 40	60 ·0	63 ·0
4 27	24. 30	5. 5	·0966	15. 0:	·01333			
	***		***	19. 18	·01304			
9. 0	21. 0	5. 28	·0958	21. 50	·01276			
	***		***		·01210			
11. 11	25. 45	7. 24	·0966	23. 0	·01185			
11. 31	24. 30		***	23. 40	·01116			
	***	7. 50	·0975					
17. 42	23. 10	8. 8	·0966					
18. 18	21. 55	8. 50	·0957					
	***		***					
19. 15	15. 0	10. 45	·0967					
	***		***					
20. 48	17. 35	12. 3	·0962					
	***		***					
23. 58	28. 0	15. 27	·0971					
	***	15. 30	·0980					
			***					
		16. 32	·0978					
			***					
		17. 40	·0961					
			***					
		18. 5	·0970					
			***					
		19. 0	·0960					
			***					
		19. 28	·0942					
			***					
		22. 30	·0932					
			***					
		23. 59	·0940					
			***					
May 14		May 14		May 14	(†)			
0. 0	22. 28. 0	1. 18	·0946	1. 40	·01029*	1. 40	63 ·0	68 ·0
	***		***		(†)	3. 40	63 ·0	68 ·0
2. 51	26. 0	2. 30	·0941	3. 40	·00891*	9. 37	62 ·5	67 ·0
	***	2. 53	·0965		(†)	21. 40	59 ·5	61 ·6
4. 15	21. 35		***	9. 37	·00877*			
	***	4. 12	·0956		(†)			
7. 14	20. 0		***	21. 40	·00877*			
	***	5. 3	·0968		(†)			
9. 20	25. 0		***					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 14		May 14						
h m	° ′ ″	h m		h m		h m	°	°
12. 30	22. 22. 20	9. 8	·0973					
	***		***					
14. 37	24. 0	9. 57	·0968					
14. 58	26. 20		***					
	***	11. 57	·0978					
19. 12	17. 35		***					
	***	12. 45	·0972					
22. 12	23. 40		***					
22. 27	27. 10	17. 36	·0986					
23. 0	29. 0		***					
23. 1	32. 50	19. 12	·0967					
23. 12	18. 20		***					
23. 14	23. 30	21. 9	·0968					
23. 15	20. 8		***					
23. 16	32. 17	21. 30	·0952					
23. 17	17. 30	21. 58	·0965					
23. 21	40. 10	22. 8	·0949					
23. 27	19. 15		***					
23. 34	20. 5	22. 16	·0966					
23. 50	23. 25		***					
	***	23. 59	·0965					
23. 59	20. 0		***					
May 15		May 15		May 15				
0. 0	22. 36. 0	0. 45	·0962	4. 0	·01010	1. 40	59 ·0	64 ·0
0. 5	6. 30		***	6. 15	·00932	3. 40	63 ·5	66 ·0
0. 8	36. 55	3. 57	·0965	8. 30	·01047	9. 40	64 ·0	68 ·0
0. 12	26. 20		***	10. 5:	·00980	22. 40	63 ·0	64 ·0
0. 13	39. 20	4. 40	·0983	14. 30	·01446			
0. 14	25. 0		***	16. 30	·01410			
	***	5. 20	·0982	17. 30	·01420			
0. 17	30. 40		***	19. 15	·01342			
0. 28	23. 30	5. 38	·0990	20. 50	·01390			
0. 29	30. 30		***	23. 10	·01080			
0. 55	28. 50	5. 55	·0984					
1. 0	29. 0		***					
	***	6. 17	·0983					
5. 0	22. 35		***					
	***	6. 57	·0998					
20. 0	18. 5	7. 24	·0982					
	***	10. 0	·0993					
23. 16	28. 0	13. 0	·0992					
		18. 30	·1012					
			***					
		19. 2	·0993					
		19. 8	·1000					
			***					
		19. 27	·0991					
		23. 18	·0978					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 16		May 16		May 16				
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 29. 5	0. 0	·0979	0. 0	·00963	10. 52	70 ·2	75 ·0
	***		***	0. 28	·00913	21. 40	61 ·5	66 ·0
7. 0	19. 30	4. 30	·0975	1. 12	·00991			
	***	4. 45	·0980	3. 57	·01107			
17. 0	19. 15	4. 52	·0966	8. 20	·01053			
20. 0	15. 10		***	9. 8	·01075			
	***	6. 45	·0978	10. 30:	·01040			
23. 58	25. 0	10. 30	·0982	14. 54	·01583			
		13. 50	·1000	16. 10	·01567			
		14. 40	·1004	17. 10	·01586			
		19. 45	·1005	19. 40	·01544			
		23. 34	·0990	20. 30	·01550			
		23. 59	·0993	20. 42	·01535			
				21. 17	·01520			
				21. 22	·01500			
				21. 35	·01498			
					·01440			
				23. 0	·01450			
May 17		May 17		May 17				
1. 0	22. 27. 10	0. 57	·0998	0. 58	·01465	1. 40	62 ·0	65 ·0
1. 51	23. 0	2. 2	·0996	1. 40	·01473	3. 40	63 ·0	67 ·0
2. 40	27. 35	3. 27	·1008	2. 40	·01436	9. 40	66 ·0	68 ·0
	***	4. 36	·1000	3. 2	·01466	21. 40	59 ·0	64 ·0
4. 57	25. 0		***	6. 0	·01300			
	(†)	8. 52	·1012	10. 0:	·01080			
6. 24	19. 30	9. 1	·1004	15. 47	·01494			
	***	9. 45	·1013	17. 0	·01485			
9. 38	22. 0		***	17. 35	·01460			
	(†)	12. 46	·1012	18. 14	·01482			
10. 30	8. 35	13. 1	·1019	21. 57	·01423			
15. 0	7. 25	13. 30	·1008					
18. 48	11. 5		***					
	***	14. 23	·1016					
20. 10	15. 45	15. 8	·1007					
	(†)	17. 6	·1012					
		18. 23	·1002					
		20. 22	·0998					
		21. 0	·1015					
		21. 38	·1007					
			(†)					
May 18		May 18		May 18				
0. 44	22. 18. 50	1. 15	·0983	1. 0	·01003	1. 40	65 ·8	69 ·7
	***		***	1. 45	·00885	3. 40	68 ·0	74 ·0
2. 7	2. 5	4. 30	·0972	2. 40	·00967	9. 40	71 ·0	75 ·0
	***	5. 25	·0993	6. 10	·01000	21. 40	65 ·0	66 ·0
3. 10	24. 0		***	9. 0	·01035			
3. 57	23. 10	8. 15	·0981	10. 30	·00930			
4. 38	28. 50	8. 30	·0971	11. 0	·00950			
	***	9. 33	·0973	11. 27:	·00924			
9. 45	11. 35	10. 1	·0986	16. 46	·01553			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 18		May 18		May 18				
h m	° ′ ″	h m		h m		h m	°	°
10. 8	22. 14. 25	10. 51	·0970	17. 30	·01580			
13. 0	14. 10		***	20. 0	·01550			
17. 30	22. 0	12. 28	·0974	21. 30	·01515			
	***	12. 59	·0990	23. 40	·01540			
20. 3	5. 30	13. 20	·0979					
	***	14. 45	·0992					
20. 26	22. 5. 25	15. 31	·0971					
21. 25	21. 56. 30	15. 55	·0986					
	(†)	18. 39	·0978					
		18. 54:	·0969					
		19. 3	·0977					
		22. 30	·0971					
		23. 59	·0994					
May 19	(†)	May 19		May 19				
6. 12	22. 23. 35	0. 31	·0983	2. 0	·01520	1. 48	64 ·0	67 ·5
	***	0. 43	·0993	3. 0	·01445	3. 40	67 ·0	69 ·0
8. 34	14. 5	1. 42	·1000	6. 0	·01080	9. 40	67 ·5	71 ·5
9. 39	0. 20	2. 51	·0981	8. 45	·00975	21. 40	62 ·5	63 ·0
10. 0	22. 1. 40	3. 15	·1003	11. 0:	·00846			
10. 20	21. 54. 50	3. 58	·0996	14. 17	·01103			
10. 32	58. 5	4. 5	·0983	16. 6	·01426			
10. 50	21. 54. 30	4. 16	·0991	17. 2	·01320			
11. 14	22. 2. 0	4. 47:	·0964	17. 13	·01350			
11. 28	0. 35	5. 17	·0997		***			
	***	5. 46:	·0969	19. 0	·01323			
12. 1	8. 0		***	20. 40	·01394			
12. 30	6. 50	6. 46	·0995	21. 2	·01393			
13. 2	10. 35	7. 32	·0986	21. 21	·01441			
13. 17	9. 5	7. 43	·0997	21. 38	·01431			
13. 52	18. 0		***	22. 15	·01436			
14. 56	4. 35	10. 21	·0979	23. 15	·01333			
16. 12	17. 5	10. 39	·0992					
17. 5	11. 0	10. 50	·0990					
17. 29	21. 0	11. 6	·0992					
17. 45	17. 30	11. 54	·0974					
18. 0	17. 15	12. 49	·0983					
18. 7	20. 0	13. 4:	·0978					
18. 40	23. 20	13. 22	·0989					
	***	13. 33	·0979					
19. 43	11. 30	15. 10	·0998					
20. 8	14. 0	15. 46	·0989					
20. 23	9. 0		***					
	***	16. 52	·1015					
20. 35	13. 0	17. 28	·0983					
21. 4	10. 30	17. 54	·1015					
21. 50	25. 10		***					
22. 10	23. 0	18. 22	·1015					
	(†)	18. 59	·0979					
		19. 28	·0995					
			***					
		20. 39	·0967					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 20		May 20		May 20				
h m	° ′ ″	h m		h m		h m	°	°
12. 0	22. 17. 0	0. 22	·0969	1. 30	·00920	1. 40	67 ·0	71 ·0
	***		(†)	1. 45	·00870	3. 40	69 ·0	72 ·0
12. 30	21. 55	2. 14	·0935	2. 34	·00966	9. 40	67 ·0	72 ·0
	***	2. 29	·0970	2. 41	·00945	21. 40	58 ·0	62 ·0
13. 2	17. 0	2. 36	·0952	3. 0	·00964			
	***	2. 40	·0961	4. 0	·00914			
13. 17	20. 10	2. 54	·0954	6. 21	·00951			
	***	3. 2	·0966	6. 50	·00921			
13. 43	11. 8	3. 9	·0961	7. 27	·00971			
	***		***	7. 37	·00950			
15. 57	23. 7	3. 33	·0984	7. 50	·01000			
	***		***	8. 30	·00941			
18. 47	19. 45	3. 47	·0965	9. 46	·00933			
	(†)		***	10. 10	·00870			
		4. 5	·0985	10. 23:	·00928			
		4. 15	·0969	12. 30	·01120			
			***	13. 30	·01141			
		4. 32	·0979	15. 15	·01432			
			***					
		4. 51	·0972					
			***					
		5. 28	·1014					
			***					
		5. 44	·0970					
		6. 30	·1019					
		6. 49	·0975					
			***					
		7. 17	·1009					
		7. 31	·0957					
		7. 46	·1016					
		8. 25	·0972					
		8. 33	·0977					
		8. 45	·0969					
			(†)					
		9. 22	·0972					
		9. 37	·0973					
		9. 46	·0991					
		10. 8	·0947					
		10. 17	·1015					
			***					
		11. 2	·0961					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	May 20 h m		h m		h m	°	°
		12. 3	·0982					
		12. 12	·0975					
		13. 8	·1004					
		13. 31	·0968					
		13. 54	·0991 ***					
		15. 40	·0977 ***					
		17. 45	·0992 ***					
		18. 32	·0968 ***					
		20. 33	·0984					
		21. 45	·0968 ***					
		23. 47	·0993					
May 21		May 21		May 21	(†)			
1. 10	22. 24. 20 ***	1. 20	·0969	3. 40	·00792*	1. 57	57 ·0	
		2. 2	·0992		(†)	3. 40	59 ·5	64 ·0
7. 10	16. 0	3. 32	·0993 ***	9. 40	·00955*	9. 40	60 ·5	66 ·0
7. 25	5. 15 ***	5. 32	·1014	21. 40	(†) ·00768*	21. 40	57 ·0	59 ·0
9. 38	18. 0 ***	7. 0	·1023		(†)			
		7. 17	·1008					
11. 0	9. 50 ***	7. 38	·1040					
		7. 53	·1019					
13. 14	24. 25 ***	8. 0	·1026 ***					
14. 56	14. 5 ***	9. 2	·1002					
		10. 47	·1007					
16. 7	17. 8 ***	11. 3	·1037					
		11. 53	·1000 ***					
16. 50	12. 25 ***	13. 20	·1018 ***					
17. 17	16. 0 ***	13. 58	·1005					
18. 45	20. 20 ***	14. 52	·1014					
		15. 17	·1000					
21. 8	13. 50 ***	17. 53	·1000					
		18. 56:	·0979 ***					
23. 51	22. 25							
		20. 15	·1007					
		21. 57	·1000					
		22. 40	·0986					
		23. 51	·0983					
May 22		May 22		May 22	(†)			
0. 36	22. 24. 8 ***	0. 13	·0982 ***	1. 40	·00931*	1. 40	59 ·0	62 ·0
					(†)	3. 40	61 ·0	63 ·0
4. 43	20. 30 ***	2. 46	·0994	3. 40	·01064*	9. 40	62 ·0	64 ·0
		3. 0:	·0987		(†)	22. 40	57 ·0	59 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 22 h m	° ′ ″	May 22 h m		May 22 h m		h m	°	°
5. 17	22. 12. 14 ***	3. 22	·1005 ***	9. 40	·01069* (†)			
6. 47	16. 36 (†)	5. 20	·1006	21. 40	·00746* (†)			
		5. 37	·1023					
13. 23	14. 0 ***	6. 21	·1006 ***					
14. 8	20. 7 ***	7. 32	·1009					
		7. 44	·0998					
18. 47	12. 45 (†)	9. 58	·0997 ***					
21. 8	12. 55 ***	10. 45	·0984					
		12. 12	·0992					
23. 31	20. 0	12. 52	·1012					
		14. 3	·0988					
		14. 52	·1002					
		19. 28	·1006 ***					
		20. 59	·0985					
		23. 40	·0984					
May 23	(†)	May 23		May 23				
9. 40	22. 15. 56* (†)	1. 5	·1000	0. 30	·01210	9. 40	62 ·0	64 ·0
		2. 13	·0991	7. 10	·00870	21. 40	55 ·0	57 ·0
21. 40	13. 53* (†)	3. 53	·1003	8. 24	·00933			
		7. 33	·0990	9. 30	·00915			
		10. 32	·1010	11. 15:	·00838			
		11. 33	·0990	17. 8	·01300			
		13. 3	·0998	20. 30	·01260			
		14. 15	·0991	22. 31	·01190			
		14. 47	·1003 ***	23. 30	·01180			
		15. 40	·0987 ***					
		16. 20	·1000 ***					
		16. 45	·0994 ***					
		18. 17	·1014					
		18. 45	·1005					
		19. 12	·1015					
		19. 51	·1007					
		20. 22	·1021					
		23. 43	·0983					
May 24		May 24		May 24				
1. 25	22. 25. 10 ***	0. 0	·0985	1. 10	·01092	1. 40	58 ·0	61 ·0
		3. 46	·0991	1. 59	·00980	3. 40	62 ·0	64 ·0
2. 32	31. 0 ***	5. 55	·0993	2. 18	·00940	9. 40	65 ·0	67 ·0
		6. 15	·1003	2. 20	·00831	21. 40	59 ·0	61 ·5
8. 43	14. 20 ***	11. 45	·0988	6. 20	·01032			
		12. 30	·1000	10. 0:	·00935			
12. 30	23. 0 ***	14 43:	·0981	16. 20	·01420			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

May 23 and 24. The Photographic Sheets were bad, owing to some error in their preparation.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 24		May 24		May 24				
h m	° ′ ″	h m		h m		h m	°	°
13. 25	22. 21. 0	16. 42	·1012	22. 0	·01348			
	***	19. 8	·0994	23. 0	·01359			
16. 0	22. 55	19. 45	·1002					
	***	23. 59	·0972					
18. 50	21. 30							
	(†)							
23. 30	24 30							
	***							
23. 59	25. 50							
May 25		May 25		May 25				
1. 2	22. 24. 25	0. 52	·0965	1. 0	·01279	1. 40	62 ·8	65 ·0
	***	2. 0	·0961	1. 30	·01203	3. 40	64 ·0	66 ·0
6. 4	19. 5	4 43	·0979	3. 3	·00876	9. 40	64 ·8	66 ·0
	***		***	7. 0	·00905	21. 40	57 ·0	59 ·0
7. 20	20. 0	5. 47	·0991	9. 0:	·00930			
	***	10. 43	·0989	16. 12	·01430			
8. 13	17. 10	11. 0	·0997	19 0	·01419			
	***	13. 52	·0988	22. 40	{ ·01349			
10. 0	20. 30	19. 20	·1006		{ ·01320			
	***	23. 59	·0984	23. 45	·01324			
15. 12	19. 10							
	***							
16. 0	21. 5							
	***							
20. 30	16. 10							
	***							
23. 59	24. 0							
May 26		May 26		May 26				
0. 32	22. 25. 10	0. 12	·0983	1. 0	·01316	1. 40	58 ·8	61 ·0
4. 0	25. 5	1. 42	·0997	7. 0	·01063	3. 40	60 ·0	62 ·0
	***	2. 59	·0995	10. 0:	·01032	9. 40	57 ·0	59 ·9
6. 30	19. 20		***	17. 0	·01280	21. 40	57 ·0	59 ·0
	***	5. 33:	·1013	18. 44	·01350			
7. 12	20. 35	6. 44	·1004	21. 43	·01340			
	***	8. 7	·1021	22. 27	{ ·01323			
16. 11	14. 10	10. 40	·1000		{ ·01304			
16. 53	20. 30		***	23. 46	·01272			
	***	14. 32	·1014					
18. 27	13. 30		***					
18. 41	15. 0	16. 35:	·0993					
18. 55	13. 20	17. 27	·1014					
	***	18. 12	·1010					
20. 0	21. 55		***					
21. 7	20. 20	20. 30	·0964					
21. 21	22. 25		***					
21. 50	19. 35	22. 45	·0956					
	***	23. 20	·0971					
23. 59	29. 15	23. 59	·0971					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 27		May 27		May 27				
h m	° ′ ″	h m		h m		h m	°	°
0. 13	22. 29. 20	0. 13	·0971	0. 30	·01325	1. 40	58 ·0	61 ·0
	***	1. 45	·0993	1. 30	·00835	3. 40	60 ·0	62 ·0
3. 32	29. 30	2. 46	·0983	2. 32	·00755	9. 40	60 ·0	63 ·0
	***	3. 8:	·0991		***	21. 40	56 ·0	58 ·0
4. 29	30. 0	3. 31	·0981	5. 14	·00875			
4. 38	27. 35	4. 3	·1000		***			
	***	4. 15	·0993	5. 24	·00853			
5. 11	30. 20	4. 25	·1002		***			
5. 24	26. 25	4. 38:	·0993	6. 1	·00890			
	***	5. 13	·1031		***			
6. 10	31. 50	5. 29	·0993	6. 10	·00917			
	***		***		***			
6. 32	19. 0	6. 14	·1064	6. 22	·00913			
6. 41	33. 20	6. 28	·1035		***			
6. 55	20. 20	6. 33	·1062	6. 32	·00927			
7. 5	23. 15	6. 47	·0998		***			
7. 23	19. 15	7. 31	·1047	6. 45	·00871			
7. 39	25. 0		***		***			
	***	8. 39	·1021	6. 58	·00908			
8. 13	20. 35	8. 51	·1044		***			
	***	9. 10	·1017	8. 45	·00962			
8. 52	4. 0	9. 25	·1072	9. 3	·00910			
8. 59	9. 5	10. 8	·0991	9. 21	·00881			
9. 3	4. 10	10. 41	·1023	10. 0	·00740			
9. 22	5. 40		***	10. 40	·00830			
	***	11. 58	·0983		***			
9. 45	24. 50	12. 7	·1010	11. 35	·00842			
	***	12. 22	·0973	11. 58	·00752			
10. 30	8. 25		***	12. 6	·00790			
	***	13. 58	·1009	12. 24:	·00732			
10. 59	15. 35	14. 17	·0988		***			
	***		***	19. 30	·01393			
11. 28	15. 0	18. 0	·0977		***			
	***	18. 23	·0991	23. 20	·01335			
11. 47	28. 0		***					
	***	19. 9	·0982					
12. 2	22. 0	19. 21	·0994					
	***		***					
12. 17	37. 0	23. 1	·0945					
	***	23. 21	·0964					
13. 36	5. 0							
	***							
14. 13	14. 5							
	***							
15. 31	9. 20							
	***							
16. 8	21. 0							
	***							
17. 17	16. 0							
	***							
18. 42	18. 30							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 27								
h m	° ′ ″	h m		h m		h m	°	°
19. 16	22. 12. 0							
19. 30	19. 0							
19. 38	14. 0							
19. 48	18. 0							
	***							
20. 10	14. 0							
20. 14	16. 10							
20. 22	13. 25							
20. 34	16. 55							
20. 51	13. 45							
21. 9	19. 10							
	***							
21. 35	16. 40							
21. 41	18. 35							
	***							
21. 58	14. 5							
	***							
23. 10	26. 0							
23. 30	24. 20							
May 28		May 28		May 28				
0. 0	22. 27. 0	0. 26	·0960	0. 0	·01290	1. 40	59 ·0	62 ·0
	***	1. 38	·0970	1. 9	{ ·01187	3. 40	61 ·0	63 ·0
1. 52	33. 50	2. 13	·0939		{ ·01100	9. 40	62 ·5	66 ·0
	***	2. 42	·0981	3. 15	·00898	21. 40	57 ·0	59 ·0
			***					
2. 51	23. 25			6. 39	·00899			
3. 27	27. 20	3. 12	·0977	7. 1	·00920			
	***	3. 23	·0993	12. 0:	·00848			
6. 23	21. 0	3. 59:	·0966	19. 15	·01424			
6. 56	12. 10	4. 38:	·0981	23. 30	·01390			
7. 30	18. 15	5. 8	·0973					
	***	6. 17	·0989					
10. 16	18. 35	6. 32	·0976					
10. 43	20. 30	6. 57	·1006					
			***					
11. 9	18. 50							
11. 42	23. 5	9. 39	·0985					
12. 6	19. 40	11. 14	·0991					
	***	11. 32:	·1002					
14. 30	19. 10	11. 59	·0989					
	***		***					
16. 30	24. 25	14. 32	·0983					
	***	15. 25	·0970					
18. 27	11. 15	18. 5	·0984					
	***	21. 29	·0976					
23. 59	23. 15	23. 59	·0977					
	***							
May 29		May 29		May 29				
0. 30	22. 24. 10	1. 0	·0980	0. 30	·01382	1. 40	58 ·5	61 ·0
	***		***	1. 30:	·01366	3. 40	49 ·5	51 ·0
5. 30	20. 0	6. 28	·0991	6. 30:	·01121	9. 40	57 ·0	61 ·0
	***	6. 59	·1004	12. 10	·01394	22. 40	54 ·0	54 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 29		May 29		May 29				
h m	° ′ ″	h m		h m		h m	°	°
10. 0	22. 20. 10	9. 21	·0998	19. 40	·01312			
	***	11. 3	·1006	20. 14	·01159			
12. 30	19. 30	14. 10	·1006	23. 0	·01105			
	***	18. 39	·1004					
14. 30	23. 0	21. 47	·0984					
	***	23. 59	·0997					
20. 0	16. 5							
	***							
23. 20	23. 20							
May 30		May 30		May 30				
0. 0	22. 25. 5	0. 30	·1005	0. 0	·01130	8. 43	59. 0	62 ·0
0. 30	26. 30	6. 45	·1005	1. 0	·00960	21. 40	56 ·0	56 ·5
7. 0	18. 15	7. 37	·1013	2. 44	·00700			
	***	10. 15	·1006	8. 17	·00792			
10. 0	19. 25	10. 50	·1019	12. 0:	·00753			
	***	12. 12	·1007	21. 30	·01358			
10. 41	15. 25	17. 10	·1017	22. 49	·01290			
	***	18. 50	·1014					
11. 0	19. 0	19. 12	·1002					
	***	23. 8	·0980					
11. 52	17. 0	23. 59	·0983					
	***							
17. 30	16. 10							
	***							
19. 30	11. 35							
	***							
23. 54	26. 25							
May 31		May 31		May 31				
0. 30	22. 27. 0	0. 21	·0986	0. 41	·01005	1. 40	60 ·5	62 ·5
1. 8	28. 0		***	1. 38	·00820	3. 40	62 ·0	64 ·0
	***	2. 8	·0977	4. 0	·00900	9. 40	59 ·0	63 ·6
7. 0	15. 15		***	10. 0:	·00886	21. 40	57 ·5	57 ·0
	***	2. 52	·0990	15. 28	·01473			
11. 31	16. 10		***	19. 30	·01409			
	***	8. 2	·1006	21. 34	·01440			
12. 3	18. 30		***	21. 36	·01190			
	***	9. 17	·0997	23. 30	·01080			
13. 10	16. 10	9. 57	·1005					
	***	12. 50	·1014					
19. 35	13. 0	13. 12	·1006					
	***	18. 45	·1014					
23. 59	23. 10	19. 39	·0990					
		21. 42	·0983					
		23. 59	·0971					
June 1		June 1		June 1				
0. 30	22. 24. 30	0. 24	·0971	0. 44	·00690	1. 40	62 ·5	63 ·0
	***	1. 17	·0973	5. 30	·00815	3. 40	64 ·0	65 ·0
6. 42	15. 0	1. 37	·0967	10. 0:	·00805	9. 40	64 ·0	65 ·5
	***		***	15. 8	·01508	21. 40	59 ·5	59 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 1		June 1		June 1				
h m	° ′ ″	h m		h m		h m	°	°
11. 0	22. 18. 5	4. 58	·0981	19. 30	·01450			
		5. 37	·0989	21. 34	·01470			
15. 44	19. 0	7. 58	·0994	23. 42	·01410			
		8. 36	·0991					
20. 30	12. 10	18. 0	·1015					
		19. 0	·1012					
23. 59	23. 0	20. 10	·1000					
		21. 47	·0990					
		23. 59	·0993					
June 2		June 2		June 2				
1. 7	22. 26. 25	1. 0	·0997	1. 52	·01339	1. 40	61 ·7	65 ·0
				5. 50	·00762	3. 40	63 ·0	63 ·5
8. 0	16. 15	5. 2	·0997	9. 43	·00764	9. 40	63 ·0	65 ·0
		5. 25	·1006		·01205	21. 40	59 ·0	61 ·0
14. 5	19. 30	5. 48	·1000	14. 45	·01510			
		6. 3	·1007	19. 0	·01470			
14. 46	23. 10	6. 21	·1002	21. 30	·01490			
		7. 27	·1014	23. 45	·01361			
15. 30	18. 15	8. 50	·1004					
		14. 38	·1015					
19. 18	14. 30	18. 0	·1017					
		22. 5	·0998					
20. 58	11. 0	23. 40	·0985					
23. 59	23. 20							
June 3		June 3		June 3				
1. 13	22. 26. 25	0. 15	·0990	1. 30	·01140	1. 40	62 ·5	64 ·0
		1. 38	·0978	4. 53	·00722	3. 40	64 ·0	66 ·0
7. 30	17. 35	2. 34	·0998	6. 7	·00740	9. 40	62 ·0	64 ·0
		2. 59	·0989	7. 12 :	·00721	21. 40	57 ·5	59 ·5
10. 47	18. 25			16. 27	·01459			
		6. 5	·1012	19. 10	·01416			
11. 46	21. 0			22. 15	·01446			
		9. 5	·1020	23. 45	·01215			
13. 3	11. 35							
		13. 23	·1003					
16. 30	20. 15							
		15. 47	·1020					
19. 30	11. 0	16. 24	·1011					
21. 14	19. 30							
21. 31	17. 35	18. 58	·1018					
22. 0	19. 55	20. 27	·0992					
		22. 31	·0991					
23. 0	20. 40	22. 47	·0975					
23. 59	23. 0	23. 17 :	·0970					
		23. 59	·0973					
June 4		June 4		June 4				
0. 35	22. 24. 35	0. 38	·0976	1. 10	·00940	1. 40	62 ·0	64 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 4		June 4		June 4				
h m	° ′ ″	h m		h m		h m	°	°
4. 0	22. 26. 30	1. 10 :	·0969	1. 55	·00758	3. 40	64 ·5	67 ·5
8. 59	17. 5	1. 42 :	·0979	3. 38	·00845	9. 40	66 ·0	68 ·0
9. 6	20. 0	2. 11 :	·0970	8. 10	·00804	21. 40	60 ·0	62 ·5
		2. 38	·0979	10. 8	·00823			
9. 42	15. 5	3. 3	·0971	15. 14	·01520			
				20. 0	·01448			
10. 50	14. 10	3. 33	·0982	21. 46	·01460			
		4. 0	·0971	23. 15	·01363			
13. 0	18. 15							
		6. 44	·1007					
13. 58	16. 0	7. 11 :	·0986					
		7. 55	·0996					
15. 10	18. 50	8. 7	·0981					
		8. 18	·0987					
18. 58	15. 25	8. 33	·0982					
19. 48	13. 5	8. 58	·0996					
20. 0	10. 55	9. 27	·0979					
		10. 8	·0992					
23. 2	18. 30	12. 46	·0998					
		17. 44	·0994					
		23. 0	·0977					
June 5		June 5		June 5				
7. 16	22. 16. 0	6. 32	·0996	6. 55	·01098	1. 40	64 ·0	64 ·8
9. 32	15. 20	7. 15	·0989	9. 32	·01101	9. 40	69 ·0	70 ·0
10. 24	18. 10			12. 20	·01222	22. 40	64 ·0	67 ·0
11. 15	14. 35	7. 51	·1000	21. 0	·00575			
12. 7	19. 35	8. 28 :	·0984	23. 0	·00480			
12. 54	11. 35	10. 11	·1000					
		10. 40	·0986					
14. 24	19. 15	10. 32	·0986					
14. 47	16. 0	11. 58	·1005					
15. 18	23. 30	12. 30	·0985					
15. 49	15. 45							
16. 33	16. 5	14. 31	·1008					
17. 1	20. 50	14. 55	·1000					
18. 30	14. 10	15. 16	·1017					
		15. 55	·1003					
20. 27	11. 45							
21. 2	16. 20	17. 50	·1010					
21. 27	13. 35							
22. 26	14. 55	19. 32	·0992					
		20. 0	·0997					
23. 2	19. 0	20. 33	·0986					
		21. 37	·0996					
		22. 6	·0988					
		22. 35	·0994					
		23. 59	·0982					
June 6		June 6		June 6				
0. 0	22. 20. 55	1. 34	·0993	0. 30	·01540	9. 40	69 ·0	71 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 6		June 6		June 6				
h m	° ′ ″	h m		h m		h m	°	°
9. 0	22. 15. 50	1. 50	·0978	3. 0	·01520	21. 40	64 ·0	66 ·0
	***	3. 28	·0995	4. 23	·01370			
16. 0	18. 35	4. 12	·0982	12. 0	·00861			
	***	4. 34	·1000	21. 20	·01590			
20. 39	11. 10	4. 42	·0994	23. 46	·01598			
23. 59	22. 0	5. 2	·0994					
		5. 15	·1003					
		5. 33	·0993					
			***					
		6. 58	·1008					
			***					
		8. 40	·0995					
		9. 45	·0996					
		10. 4	·1000					
		12. 30	·0994					
		17. 56	·1000					
		19. 0	·1000					
		23. 39	·0990					
June 7		June 7		June 7				
1. 11	22. 26. 25	0. 0	·0990	1. 30	·01565	1. 42	65 ·5	67 ·5
3. 30	22. 35		(†)	7. 9	·01260	3. 40	67 ·0	69 ·0
	***	3. 30	·1018	8. 45	·01273	9. 40	66 ·5	69 ·0
7. 30	17. 30	3. 54	·1022	10. 18:	·01241	21. 40	63 ·0	65 ·5
	***	4. 30:	·1001	15. 26	·01622			
16. 0	20. 25	6. 30	·1022	19. 45	·01560			
17. 24	14. 25		***	22. 0	·01580			
	***	8. 10	·1014	23. 42	·01530			
19. 39	11. 0		***					
	***	8. 50	·1020					
23. 59	24. 5	9. 3	·1014					
			***					
		13. 0	·1010					
		13. 56	·1000					
			***					
		16. 23	·1014					
		18. 7	·1015					
		23. 59	·0982					
June 8		June 8		June 8				
0. 30	22. 24. 20	0. 27	·0980	1. 0	·01455	1. 40	65 ·5	68 ·0
	***	0. 45	·0986	1. 23	·01410	3. 40	67 ·0	69 ·0
6. 30	18. 35	1. 18	·0983	1. 27	·01150	9. 40	68 ·0	70 ·0
	***		***	4. 8	·00805	21. 42	62 ·8	65 ·0
7. 0	13. 30	3. 0	·1004	4. 32	·00841			
8. 27	18. 50	3. 15	·0996	4. 41	·00830			
10. 28	20. 25	3. 34	·1016	7. 1	·00852			
10. 48	25. 0	4. 0	·1000	9. 36	·00895			
12. 0	20. 0		***	11. 23:	·00837			
	***	4. 28	·1028	19. 44	·01612			
16. 30	19. 55	5. 0	·1000	23. 45	·01543			
	***	5. 40:	·1015					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 8		June 8						
h m	° ′ ″	h m		h m		h m	°	°
20. 21	22. 15. 30	5. 55	·1004					
	***		***					
23. 59	23. 45	8. 5	·1015					
		8. 36	·1002					
		8. 48	·1007					
		10. 0	·1001					
		11. 1	·1011					
		11. 55	·1000					
		17. 38	·1011					
		20. 15	·0995					
		21. 30	·1000					
		22. 45	·0989					
		23. 59	·0995					
June 9		June 9		June 9				
0. 33	22. 23 35	1. 8	·1008	1. 30	·01533	1. 43	64 ·0	67 ·0
7. 10	17. 20		***	4. 10	·01390	3. 40	64 ·0	67 ·0
10. 53	20. 55	3. 30	·1026	6. 30	·01393	9. 40	63 ·8	67 ·0
10. 59	23. 10		***	9. 26	·01443	21. 40	59 ·0	62 ·0
11. 40	17. 40	6. 50	·1027	10. 47	·01422			
	***	7. 12	·1038	10. 52	·01436			
13. 58	18. 30	10. 50	·1030	11. 2	·01420			
14. 20	27. 5	10. 55	·1048	13. 42	·01412			
15. 3	20. 15	11. 52	·1030	14. 12:	·01440			
	***	12. 30	·1040	15. 46	·01550			
16. 38	16. 0		***	17. 30	·01527			
	***	13. 50	·1026	19. 12	·01542			
21. 41	16. 40	14. 8	·1030	23. 16	{ ·01470			
	***	14. 28	·1025		{ ·01410			
23. 58	20. 35	16. 12	·1038					
		17. 0	·1026					
		23. 59	·1023					
June 10		June 10		June 10				
0. 0	22. 23. 30	0. 45	·1026	1. 0	·01451	1. 40	58 ·5	61 ·5
0. 38	23. 0		***	6. 53	{ ·01494	3. 40	59 ·0	61 ·0
0. 57	19. 30	1. 45	·1032		{ ·01369	9. 43	59 ·0	60 ·5
1. 8	24. 0	4. 45	·1026	9. 25	·01407	21. 40	54 ·0	57 ·0
	***	7. 0	·1048	9. 54:	·01390			
4. 0	24. 0		***	12. 13	·01485			
	***	9. 50	·1034	14. 10	·01413			
6. 30	18. 5	12. 0	·1036	14. 58	·01357			
9. 25	20. 25	13. 24	·1034	20. 0	·01365			
9. 38	35. 50		***	21. 45	·01320			
	***	14. 27	·1049	21. 50	·00850			
11. 0	26. 45	15. 5	·1034	23. 30	·00748			
	***		***					
15. 0	23. 0	19. 23	·1042					
17. 50	22. 30		***					
21. 2	21. 0	23. 42	·1018					
	***							
22. 34	13. 0							
	***							

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 10								
h m	° ′ ″	h m		h m		h m	°	°
23. 10	22. 18. 0							
23. 21	17. 10 (†)							
June 11		June 11		June 11				
1. 28	22. 30. 30	0. 30	·1024	1. 30	·00671	1. 43	57 ·0	58 ·0
4. 0	25. 35	1. 26	·1028	2. 20	·00630	3. 40	58 ·0	61 ·0
4. 41	27. 55	1. 33	·1044	3. 21	·00758	9. 40	56 ·0	59 ·5
5. 15:	21. 0	2. 10	·1020			21. 40	53 ·0	56 ·0
5. 46	24. 5	2. 25	·1032	6. 53	·00767			
7. 30	18. 0			6. 59	·00789			
8. 20	8. 25	3. 17	·1016	7. 1	·00775			
8. 33	10. 30	3. 29	·1050					
9. 6	3. 45	4. 0	·1014	8. 20	·00883			
9. 46	22. 10. 20	4. 30	·1019					
10. 11	21. 52. 30			8. 41	·00875			
10. 29	22. 5. 10	5. 27	·1040					
10. 59	21. 50. 5			8. 48	·00840			
11. 2	57. 30	6. 0	·1028					
11. 15	21. 53. 0			9. 10	·00822			
11. 31	22. 33. 5	6. 58	·1040	9. 40	·00740			
11. 49	21. 55. 35	7. 2	·1063	9. 59	·00511			
				10. 8	·00560			
12. 28	22. 10. 0	8. 5	·1036					
		8. 15	·1020	10. 52	·00264			
12. 54	21. 56. 25	8. 28	·1045	11. 3	·00272			
				11. 10	·00231			
13. 13	22. 7. 10	8. 48	·1046	11. 15	·00261			
				11. 17	·00178			
13. 44	1. 0	9. 35	·0991		(†)			
		9. 42	·1000	11. 36	·00150			
14. 10	8. 0	9. 52	·0966	12. 20	·00575			
14. 38	39. 0	10. 20	·1025	12. 41	·00527			
		10. 52	·0952	13. 0	·00580			
15. 6	11. 0	11. 3	·0964					
15. 22	24. 25	11. 27	·0914	13. 45	·00570			
		11. 30	·0950	14. 0	·00630			
15. 38	12. 0	11. 48	·0912	14. 18	·00540			
				14. 28	·00536			
16. 28	28. 50	12. 28	·1013	14. 40	·00440			
16. 30	22. 30	12. 36	·1006	15. 0	·00770			
16. 58	35. 35			15. 28	·00870			
17. 43	22. 0	13. 0	·1032	16. 2	·01078			
17. 46	25. 0	13. 27	·0994	16. 45	·01180			
18. 30	26. 5			17. 1	·01160			
19. 32	17. 20	14. 5	·1012	18. 21	·01220			
22. 13	20. 10	14. 28	·0956	18. 46	·01210			
				22. 52	·01370			
23. 59	29. 0	15. 10	·1040	23. 50	·01260			
		15. 39	·1010					
		16. 18	·1028					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	June 11 h m		h m		h m	°	°
		16. 45	·0980					
		18. 0	·1022					
		19. 45	·1022					
		21. 58	·1000					
		23. 6	·0988					
		23. 59	·0994					
June 12		June 12		June 12				
0. 0	22. 29. 0	2. 0	·1029	2. 30	·00920	1. 40	55 ·5	59 ·5
1. 0	29. 5	5. 34	·1030	4. 38	·00720	3. 40	58 ·0	60 ·0
	(†)	5. 45:	·1022	5. 40	·00722	9. 40	59 ·0	62 ·0
2. 27	23. 30	6. 0:	·1033	7. 40	·00681	22. 40	59 ·0	61 ·0
9. 53	19. 5	10. 8	·1034	9. 27	·00771			
10. 30	17. 0	10. 22	·1044	11. 0	·00730			
		15. 12	·1034	13. 10	·00733			
15. 33	17. 0	16. 5	·1028		(†)			
16. 40	21. 25			22. 22	·01255			
		19. 0	·1036	23. 5	·01198			
18. 48	11. 20							
19. 30	15. 30	22. 7	·1009					
22. 37	16. 30							
23. 15	20. 50	23. 11	·1016					
June 13		June 13		June 13				
0. 0	22. 20. 15	0. 0	·1016	0. 0	·01085	9. 43	64 ·8	68 ·0
2. 0	23. 35			1. 30	·00822	21. 40	59 ·0	62 ·0
		4. 50	·1012	2. 13	·00859			
8. 3	16. 20				·00884			
		5. 30	·1023	8. 0	·00870			
13. 0	17. 25	5. 39	·1015	9. 0	·00922			
		8. 48	·1024	10. 13:	·00890			
17. 0	16. 30	11. 0	·1024	16. 44	·01580			
20. 17	11. 10	12. 48	·1029	18. 28	·01529			
23. 42	20. 55	19. 36	·1029	19. 35	·01545			
		23. 5	·1004	22. 0	·01528			
		23. 59	·1009	23. 11	·01473			
June 14		June 14		June 14				
1. 30	22. 24. 0	0. 40	·1010	1. 40	·01205*	1. 40	64 ·0	66 ·0
		1. 10	·1010	3. 40	·00766*	3. 40	63 ·5	66 ·0
9. 2	17. 0	2. 45	·1024	9. 40	·01053*	9. 40	62 ·5	64 ·5
				21. 40	·01492*	21. 40	59 ·0	61 ·0
16. 0	16. 5	15. 30	·1047					
		20. 10	·1026					
19. 30	10. 30	23. 12	·1020					
		23. 59	·1027					
23. 59	23. 35							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

June 14d to June 25d. The time-piece of the Vertical Force was away for repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 15		June 15		June 15				
h m	° ′ ″	h m		h m		h m	°	°
1. 0	22. 26. 5	1. 0	·1024	1. 42	·01133*	1. 42	62 ·0	63 ·0
2. 42	27. 5	3. 36	·1034	3. 40	·00748*	3. 40	64 ·0	64 ·0
3. 40	27. 4*		***	9. 40	·00702*	9. 40	64 ·5	65 ·5
	(†)	5. 35	·1032	21. 40	·01053*	21. 40	57 ·0	58 ·5
9. 40	18. 1*		***					
	(†)	6. 28	·1046					
21. 40	16. 28*	7. 15	·1037					
22. 0	21. 0	7. 45	·1047					
22. 31	28. 0	9. 0	·1034					
23. 59	23. 40	10. 35	·1039					
		10. 58	·1048					
		11. 10	·1044					
		11. 30:	·1057					
		12. 30:	·1038					
		13. 31	·1030					
		14. 8:	·1059					
		15. 10	·1035					
			***					
		16. 21	·1046					
		16. 47	·1033					
		18. 2	·1030					
		18. 45	·1054					
			***					
		20. 30	·1040					
		22. 0	·0963					
			***					
		23. 59	·1012					
June 16		June 16		June 16				
0. 40	22. 26. 5	0. 30	·1020	1. 40	·01075*	1. 40	61 ·0	62 ·0
	***	0. 52	·1032	3. 40	·00917*	3. 40	61 ·0	62 ·0
1. 59	32. 0		***	9. 40	·00566*	9. 40	62 ·0	63 ·0
	***	1. 11	·1021	21. 40	·01125*	21. 40	58 ·0	59 ·0
2. 20	20. 15	1. 17	·1040					
	***		***					
2. 36	22. 30	2. 0	·0998					
	***		***					
2. 46	17. 10	2. 22	·1053					
	***		***					
3. 50	30. 0	2. 40	·1016					
	***		***					
4. 14	27. 0	3. 10	·1015					
	***		***					
4. 31	30. 55	3. 17	·1041					
	***	3. 50:	·1016					
5. 12	23. 20		***					
	***	4. 46	·1041					
5. 17	26. 55	5. 2	·1018					
	***	5. 11	·1040					
5. 40	19. 0	5. 27	·1000					
	***	5. 51	·1045					
6. 1	18. 0		***					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 16		June 16						
h m	° ′ ″	h m		h m		h m	°	°
6. 30	22. 20. 0	6. 47	·1026					
	***	7. 44	·1045					
7. 52	18. 10		***					
	***	8. 8	·1038					
8. 33	7. 0	8. 22	·1010					
	***	8. 34	·1011					
8. 49	10. 50	8. 43	·1020					
	***	8. 46	·1009					
9. 26	8. 0	8. 56	·1018					
	***	9. 26	·1025					
10. 22	12. 35		***					
	***	10. 31	·1009					
10. 40	19. 0		***					
	***	10. 59	·1052					
10. 56	8. 0	11. 13	·1040					
	***	11. 28	·1005					
11. 7	11. 40	11. 45	·1038					
	***	12. 0	·1004					
11. 11	7. 20	12. 20	·1020					
	***		***					
11. 22	22. 13. 55	12. 57	·1030					
	***		***					
11. 35	21. 57. 0	14. 5	·1019					
	***	14. 43	·1036					
12. 0	22. 13. 30	15. 2	·1025					
	***	15. 20	·1042					
12. 13	5. 0	15. 51	·1016					
	***		***					
12. 25	22. 8. 10	16. 46	·1007					
	***		***					
13. 9	21. 58. 5	18. 21	·1028					
	***		***					
14. 28	22. 16. 0	19. 38	·0976					
	***		***					
14. 58	7. 0	20. 53	·1013					
	***		***					
15. 14	13. 25	22. 39	·1000					
	***		***					
15. 24	10. 5	23. 29	·1014					
	***	23. 59	·1000					
16. 4	16. 0							
	***							
16. 17	12. 0							
	***							
16. 37	17. 0							
	***							
17. 19	13. 20							
	***							
18. 10	16. 15							
	***							
18. 26	16. 0							
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 16								
h m	° ′ ″	h m		h m		h m	°	°
18. 41	22. 11. 0							
	***							
19. 41	21. 30							
	***							
19. 54	18. 0							
	***							
20. 0	22. 5							
	***							
20. 16	16. 35							
	***							
21. 42	14. 0							
	***							
23. 59	22. 10							
	***							
June 17		June 17		June 17				
1. 0	22. 24. 40	0. 20	·1000	1. 40	·00921*	1. 40	59 ·0	61 ·0
	***	1. 2	·0994	3. 40	·00714*	3. 40	61 ·0	62 ·5
1. 37	26. 5	1. 34	·1005	9. 40	·00588*	9. 40	60 ·0	65 ·0
	***	1. 54	·0996	21. 40	·01189*	21. 40	58 ·0	60 ·0
1. 54	24. 10	2. 14	·0995					
	***	2. 58	·1022					
2. 40	26. 5		***					
	***	3. 43	·1000					
3. 30	23. 0		***					
	***	4. 23:	·1037					
3. 33	24. 10	5. 15	·1011					
	***	6. 13	·1023					
4. 4	14. 25	6. 22	·1016					
	***	7. 32	·1032					
5. 0	20. 10	7. 46	·1047					
	***	8. 12	·1020					
6. 11	19. 30	8. 16	·1033					
	***	9. 25	·1019					
7. 0	18. 15	11. 29	·1029					
	***	12. 43	·1023					
7. 49	7. 10		***					
	***	13. 21	·1030					
10. 0	18. 25	14. 38	·1011					
	***	16. 28	·1029					
10. 48	17. 50	18. 57	·1025					
	***	22. 15	·0987					
11. 38:	24. 35	23. 14	·1001					
	***	23. 59	·0995					
12. 41	11. 25							
	***							
13. 52	12. 15							
	***							
15. 9	19. 30							
	***							
16. 53	14. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 17								
h m	° ′ ″	h m		h m		h m	°	°
20. 23	22. 10. 55							
	***							
23. 59	20. 15							
	***							
June 18		June 18		June 18				
0. 50	22. 20. 0	0. 25	·1000	1. 40	·01105*	1. 40	59 ·0	61 ·3
	***	1. 52	·1015	3. 40	·00957*	3. 40	61 ·0	62 ·0
2. 5	22. 30		***	9. 40	·00482*	9. 40	62 ·0	63 ·0
	***	4. 23	·1013	21. 40	·01093*	21. 40	57 ·5	59 ·0
4. 43	22. 25	4. 43	·1021					
	***	5. 10	·1020					
6. 39	15. 30	5. 17	·1028					
	***	5. 51	·1030					
7. 30	17. 20	6. 3	·1020					
	***		***					
7. 53	15. 0	6. 55	·1040					
	***	7. 33	·1023					
8. 31	17. 25	8. 38	·1026					
	***	9. 5:	·1040					
8. 45	14. 25	10. 30:	·1020					
	***	11. 0	·1025					
9. 17	19. 0	12. 58	·1030					
	***		***					
12. 52	17. 0	15. 0	·1034					
	***		***					
13. 27	23. 35	17. 0	·1025					
	***	17. 50	·1033					
14. 12	16. 55	19. 15	·1022					
	***	20. 12	·1025					
15. 46	15. 0	23. 30	·1002					
	***							
17. 45	17. 55							
	***							
18. 32	13. 50							
	***							
21. 13	13. 0							
	***							
23. 59	22. 0							
	***							
June 19		June 19		June 19				
0. 33	22. 22. 30	0. 18	·1006	1. 40	·00710*	1. 42	61 ·0	62 ·0
	***	0. 48	·1000	3. 40	·00646*	3. 40	63 ·0	64 ·0
3. 0	28. 0	2. 30	·1005	9. 40	·00606*	9. 40	65 ·0	65 ·3
	***		***	22. 40	·01229*	22. 40	58 ·5	59 ·0
6. 12	20. 0	4. 15	·1028					
6. 45	19. 20		***					
7. 38	16. 40	5. 10	·1018					
8. 1	10. 10		***					
	***	6. 32	·1034					
9. 31	17. 15	6. 48	·1030					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

On June 15, $9^h.40^m$ and $21^h.40^m$; June 16, $3^h.40^m$ and $9^h.40^m$; June 17, $1^h.40^m$, $3^h.40^m$, and $21^h.40^m$; and the whole of June 18 and 19; the thermometer readings of H. F. and V. F. have been interchanged. They were taken by an inexperienced assistant, and there is reason to think that they were wrong.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 19		June 19						
h m	° ′ ″	h m		h m		h m	°	°
9. 43	22. 15. 35 ***	7. 8	·1036 ***					
10. 30	17. 40 ***	7. 50	·1024					
		8. 9	·1038					
10. 53	16. 0 ***	9. 30:	·1017					
		11. 0:	·1053					
11. 14	18. 0 ***	12. 0	·1024					
		13. 40	·1023					
12. 42	14. 0 ***	17. 58	·1034					
		22. 20	·1009					
17. 30	17. 35 ***	23. 18	·1014 ***					
18. 38	14. 5 ***							
18. 48	13. 30 ***							
19. 19	14. 5 ***				*			
21. 0	11. 0 ***							
23. 3	17. 20							
June 20	(†)	June 20		June 20				
1. 16	22. 27. 30	0. 15	·1000	8. 42	·00570*	8. 42	64 ·0	65 ·5
3. 31	28. 20	1. 18:	·1022	21. 40	·00590*	21. 40	61 ·0	62 ·0
8. 42	17. 15	3. 10	·1030					
10. 47	14. 55	5. 50	·1014					
15. 42	15. 20	10. 25	·1028					
16. 0	18. 30	10. 42	·1038					
21. 16	10. 35	12. 38	·1026					
23. 4	15. 40	18. 33	·1029					
		21. 0	·1012					
		23. 40	·1000					
June 21		June 21		June 21				
0. 0	22. 20. 0 ***	0. 0	·0997 ***	1. 40	·00525*	1. 42	63 ·2	64 ·0
				3. 40	·00526*	3. 40	63 ·0	64 ·0
2. 30	27. 5 ***	2. 30	·1015 ***	9. 40	·00562*	9. 40	63 ·0	64 ·2
				21. 40	·01284*	21. 40	58. 0	62 ·0
5. 10	21. 0 ***	7. 15	·1014					
		11. 0	·1026					
9. 0	15. 40 ***	11. 24	·1026					
		12. 18	·1020					
17. 52	15. 35 ***	19. 0	·1034					
		22. 45	·0989					
20. 37	10. 0 ***	23. 15	·0984					
		23. 59	·0983					
23. 59	20. 35							
June 22		June 22		June 22				
1. 10	22. 24. 25	0. 45	·0983	1. 40	·00806*	1. 42	62 ·5	65 ·8
8. 43	15. 30	2. 0	·0975	3. 40	·00558*	3. 40	64 ·0	66 ·7

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 22		June 22						
h m	° ′ ″	h m		h m		h m	°	°
12. 32	22. 16. 35	3. 30	·1000	9. 40	·00574*	9. 40	64 ·0	65 ·5
13. 0	18. 35	4. 8	·1000 ***	21. 40	·01308*	21. 40	58 ·0	60 ·5
13. 59	12. 25							
15. 0	15. 35	6. 38	·1013					
16. 30	12. 5	6. 55	·1005					
18. 15	18. 0	8. 55	·1012 ***					
18. 30	15. 0							
19. 42	21. 25	12. 36	·1008					
21. 32	18. 0	12. 51	·1016 ***					
23. 2	26. 0							
23. 59	26. 5	14. 20	·1004					
		15. 30	·1020					
		17. 12	·1019					
		18. 0	·1028					
		19. 15	·1005					
		20. 0	·1005					
		21. 15	·0980 ***					
		23. 43	·0963					
June 23		June 23		June 23				
0. 30	22. 25. 0	0. 45	·0977 ***	1. 40	·00738*	1. 40	63 ·0	64 ·0
2. 51	25. 15			3. 40	·00630*	3. 40	65 ·0	67 ·0
9. 6	13. 50	2. 40	·0970 ***	9. 40	·00711*	9. 40	68 ·0	69 ·0
10. 30	17. 0			21. 40	·01364*	21. 40	59 ·0	61 ·5
11. 0	15. 35	6. 30	·0991					
14. 2	14. 50	11. 5	·0993					
14. 21	16. 5	11. 30	·0998					
15. 0	14. 0 ***	11. 50	·0990					
		16. 0	·1000					
19. 1	15. 5	18. 34	·1000					
20. 7	12. 10	18. 54	·1004					
21. 51	13. 0	20. 54	·0992					
23. 59	21. 15	22. 40	·0972					
		23. 59	·0982					
June 24		June 24		June 24				
1. 1	22. 23. 0	1. 0	·0988	1. 40	·01035*	1. 40	63 ·0	65 ·0
7. 0	18. 0 ***	1. 40	·0987	3. 40	·00670*	3. 40	67 ·0	68 ·0
		2. 48	·1000	9. 40	·00702*	9. 40	67 ·0	72 ·0
12. 0	17. 0 ***	4. 30	·1000	21. 40	·01380*	21. 40	59 ·5	63 ·5
		5. 10	·1008					
16. 51	15. 5	5. 30	·0998					
18. 32	9. 5	6. 20	·0996					
18. 48	11. 15 ***	7. 34	·1009					
		13. 0	·1009					
20. 18	10. 5 ***	14. 34	·1017					
		18. 56	·1017					
21. 15	14. 0	19. 35	·1005					
21. 30	12. 55 ***	21. 55	·1000					
		23. 40	·0984 ***					
23. 59	20. 0							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 25		June 25		June 25				
h m	° ′ ″	h m		h m		h m	°	°
0. 40	22. 19. 40	0. 15	·0986	1. 40	·01109*	1. 40	63 ·0	66 ·2
4. 0	22. 5	2. 26	·1007	3. 40	·00694*	2. 40	66 ·0	68 ·5
8. 40	16. 55	2. 51	·1000	9. 40	·00714*	9. 40	68 ·0	70 ·0
9. 13	14. 30	3. 6	·1007	21. 40	·01492*	21. 40	63 ·0	63 ·5
10. 45	17. 20	3. 20	·0998					
	***	3. 37	·1007					
17. 31	12. 0	3. 48	·0994					
	***	4. 13	·1004					
21. 54	15. 0	4. 30	·0996					
23. 59	20. 0	4. 58	·1006					
		5. 15	·0998					
		7. 0	·1018					
		8. 45	·1004					
		11. 6	·1000					
		12. 55	·1004					
		13. 6	·1006					
		17. 20	·1012					
		22. 0	·1000					
		23. 59	·1009					
June 26		June 26		June 26				
1. 7	22. 24. 0	1. 30	·1000	2. 12	·01525	1. 40	63 ·0	64 ·0
7. 14	18. 15	3. 10	·1000	5. 0	·00920	3. 40	66 ·0	67 ·5
7. 42	14. 5	3. 38	·1009	8. 15	·00980	9. 40	68 ·5	72 ·0
9. 52	17. 10	4. 18	·1010	8. 33	·01040	22. 40	62 ·0	66 ·0
14. 7	18. 30	4. 55	·1000	9. 19	·01000			
19. 20	10. 35	6. 33	·1010	12. 15:	·00954			
23. 10	19. 0	7. 30	·1000	19. 12	·01705			
		8. 0	·1008	21. 0	·01684			
		8. 34	·1008	23. 15	·01652			
		10. 10	·0994					
		17. 0	·1000					
		18. 0	·1004					
		20. 56	·1000					
		23. 0	·0987					
June 27		June 27		June 27				
0. 0	22. 21. 5	0. 0	·0986	0. 0	·01645	9. 21	68 ·0	73 ·0
1. 0	23. 20		***	1. 0:	·01589	21. 43	63 ·5	66 ·0
8. 20	17. 25	3. 24	·0987	6. 30	·00885			
8. 52	14. 0		***	8. 36	·00920			
	***	3. 55	·0979	9. 37	·00987			
11. 0	17. 5	7. 12	·1002	9. 45	·01081			
15. 20	15. 30	7. 30	·0996	12. 0:	·01033			
18. 0	11. 35		***	18. 52	·01678			
	***	9. 20	·0992	21. 34	·01648			
22. 15	15. 5	15. 0:	·1000	23. 0	·01642			
23. 59	20. 30	20. 1:	·0999					
		23. 8	·0979					
		23. 59	·0985					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 28		June 28		June 28				
h m	° ′ ″	h m		h m		h m	°	°
1. 0	22. 22. 0	1. 0	·0986	1. 30	·01400			
4. 2	23. 0	2. 0	·0988	3. 58	·00920	1. 43	66 ·5	69 ·0
9. 7	18. 0	2. 30	·0976	4. 41	·00927	3. 40	69 ·0	72 ·0
9. 39	10. 25			5. 4	·01011	9. 40	67 ·0	69 ·5
	***	3. 20	·0998	6. 54	·00989	21. 40	63 ·0	67 ·0
11. 35	19. 0		***	6. 59:	·01033			
12. 0	16. 40	3. 54	·0982	18. 14	·01683			
	***		***	20. 50	·01660			
15. 22	15. 55	4. 52	·0986	23. 0	·01670			
	***	5. 28	·0996	23. 50	·01631			
16. 45	19. 5	6. 0	·0990					
	***	7. 30	·1014					
19. 2	9. 20	8. 10:	·0984					
	***	8. 59	·0990					
20. 32	22. 30	10. 8	·1020					
	***	10. 25	·1012					
20. 55	21. 30		***					
	***	11. 47	·1013					
21. 25	24. 20	15. 37	·1020					
22. 41	19. 0	16. 28	·1013					
23. 59	21. 30	17. 0	·1024					
		19. 10	·1018					
		19. 30	·1009					
		20. 10	·1010					
		20. 30	·0999					
		20. 56	·1008					
			***					
		22. 50	·1006					
		23. 59	·0992					
June 29		June 29		June 29				
1. 4	22. 23. 35	0. 50	·0986	1. 30	·01550	1. 40	65 ·0	68 ·0
3. 21	20. 50	2. 38	·0978	6. 20	·01144	3. 40	66 ·5	70 ·0
6. 22	18. 5		***	10. 0:	·01030	9. 40	66 ·0	69 ·0
8. 32	18. 5	6. 40	·1016	17. 30	·01645	21. 40	62 ·5	65 ·5
9. 1:	9. 0		***	19. 0	·01632			
9. 38	11. 35	9. 0	·1024	21. 0	·01648			
9. 50	9. 0	9. 38	·0996	22. 56	·01540			
10. 28	15. 35		***	23. 50	·01390			
11. 31	19. 25	15. 30	·1013					
12. 28	17. 10	19. 40	·1013					
13. 42	17. 50	22. 58	·0980					
	***	23. 59	.0973					
15. 0	20. 30							
	***							
16. 38	15. 10							
	***							
19. 55	12. 25							
	***							
22. 30	18. 10							
22. 53	21. 45							
23. 1	20. 35							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

On June 20, 21, 22, 23, 24 (excepting at 3h. 40m), 25, and 26 (at 1h. 40m only), the thermometer readings for H. F. and V. F. have been interchanged. They were taken by an inexperienced assistant, and there is reason to think that they were wrong.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 29								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 22. 0							
June 30		June 30		June 30				
1. 2	22. 23. 0	0. 15	·0971	1. 10	·01210	1. 40	66 ·0	69 ·0
2. 0	25. 55	0. 35	·0992	1. 40	·01112	3. 40	68 ·0	71 ·0
2. 48	23. 50	1. 8	·0966	2. 30	·00939	9. 40	69 ·0	73 ·0
3. 50	25. 0	1. 45	·0981	4. 2	·00987	21. 44	63 ·0	65 ·0
4. 12	22. 50	2. 12	·0956	4. 15	·01084			
7. 50	13. 30	2. 48	·0989	5. 3	·01060			
8. 25	17. 0	3. 55	·0994	5. 6	·01115			
	***	4. 18	·0976	5. 20	·01130			
			*	6. 21	·01120			
12. 1	16. 5							
12. 21 :	8. 30	5. 58	·0980	6. 25	·01170			
13. 0	15. 0	6. 15	·0990	7. 51	·01155			
15. 50	18. 0	7. 8 :	·0978	7. 58 :	·01198			
	***		***	14. 8	·01742			
16. 22	14. 0	8. 24	·1010	19. 45	·01620			
	***	8. 58	·0996	21. 53	·01650			
18. 8	15. 0	11. 50	·1008	21. 57	·01391			
	***	12. 26	·1012	23. 44	·01235			
18. 29	12. 35	13. 0	·1000					
	***		***					
19. 20	20. 40	18. 25	·1021					
	***	19. 12	·1005					
20. 27	12. 0	19. 42	·1012					
21. 28	14. 5	23. 30	·0983					
21. 31	13. 15							
21. 46	16. 0							
	***							
23. 59	19. 10							
	***							
July 1		July 1		July 1				
1. 12	22. 20. 10	1. 16	·0976	1. 39	·00920	1. 40	65 ·5	69 ·0
	***	4. 28	·0992	2. 3	·00851	3. 40	66 ·5	70 ·0
5. 5	17. 20	5. 28	·0986	6. 15	·00963	9. 40	69 ·0	73 ·0
	***	6. 4	·1000	6. 32	·00991	21. 40	63 ·5	65 ·0
6. 0	15. 0		***	7. 20	·00956			
7. 0	16. 10	8. 33	·1000	7. 30	·00990			
	***	9. 15	·0993	8. 45	·01023			
9. 38	16. 30	14. 0	·1022	9. 0 :	·01072			
	***	14. 36	·1009	15. 58	·01686			
13. 0	17. 20	15. 36	·1017	18. 0	·01638			
	***	16. 3	·1008	20. 30	·01653			
13. 53	19. 25		***	21. 48	·01642			
	***	17. 15	·1019	22. 38	·01655			
14. 50	16. 55	19. 28	·1005	23. 50	·01600			
15. 2	13. 0	19. 42	·0996					
	***	22. 0	·0978					
15. 30	16. 25		***					
	***	23. 59	·0990					
16. 20	9. 45							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 1								
h m	° ′ ″	h m		h m		h m	°	°
16. 57	22. 14. 30							
	***							
18. 4	10. 0							
	***							
18. 24	11. 0							
19. 0	9. 30							
19. 5	11. 20							
19. 26	10. 5							
19. 40	12. 0							
	***							
20. 29	11. 0							
	***							
21. 50	15. 50							
22. 3	14. 10							
22. 31	18. 25							
23. 0	17. 15							
23. 59	20. 50							
July 2		July 2		July 2				
1. 0	22. 22. 35	1. 0	·0990	1. 24	·01417	1. 43	66 ·0	69 ·0
	***	2. 30	·0988	1. 45	·01215	3. 40	68 ·0	72 ·0
6. 30	17. 30	2. 55	·0997	3. 0	·00991	9. 40	69 ·0	72 ·0
6. 58 :	14. 30		***		***	21. 40	63 ·0	66 ·5
7. 50	16. 35	4. 5	·0982	7. 30	·01111			
8. 36	12. 30	4. 22	·0996	9. 14	·01110			
8. 45	22. 13. 55		***	9. 27	·01144			
9. 21	21. 54. 30	6. 2	·0998	9. 52 :	·01480			
9. 36	22. 11. 0	6. 15	·1010	15. 12	·01550			
10. 9	15. 0	6. 30	·0992	20. 0	·01495			
10. 21	13. 15	6. 35	·1000	22. 22	·01498			
	***	6. 45	·0986	23. 42	·01400			
14. 30	19. 5		***					
	***	7. 45	·1015					
15. 2	16. 15		***					
17. 59	11. 40	8. 15	·0985					
18. 7	13. 30	8. 33	·1003					
18. 28	11. 0	8. 47	·1007					
	***	9. 8	·0985					
20. 23	11. 30	9. 28	·1032					
20. 57	13. 30	10. 13	·0990					
21. 33	13. 0		***					
22. 30	20. 50	14. 2	·1008					
	***		***					
23. 59	22. 0	18. 58	·1004					
		19. 27	·0990					
		20. 55	·0989					
		22. 0	·0968					
		22. 18	·0971					
		22. 36	·0956					
			***					
		23. 59	·0980					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 3		July 3		July 3				
h m	° ′ ″	h m		h m		h	°	°
0. 30	22. 23. 40	0. 45	·0985	1. 0	·01210	1. 40	68 ·8	72 ·0
2. 30	25. 50	1. 48	·0973	1. 30	·01123	3. 40	72 ·0	75 ·0
	***		***	4. 15	{·01187	9. 40	74 ·5	77 ·0
10. 30	17. 25	3. 8	·0985		{·01047	22. 40	72 ·0	73 ·0
11. 15	10. 35	3. 45:	·0963	7. 45	{·00997			
12. 0	18. 40		***		{·01036			
12. 54	16. 30	6. 8	·0977	11. 0:	·01065			
14. 11	27. 30	6. 29	·0997	14. 31	·01282			
	***	6. 45	·0977	15. 16	·01385			
15. 50	15. 45		***	16. 0	·01349			
	***	15. 16	·1003	18. 30	·01350			
16. 39	14. 0	17. 58	·0985	21. 0	·01392			
	***	18. 9	·0997	22. 35	·01291			
17. 8	17. 20	18. 15	·0987	23. 8	·01218			
	***		***					
18. 3	16. 0	21. 0	·0956					
18. 11	18. 50		***					
	***	23. 7	·0966					
18. 39	14. 30							
18. 42	16. 50							
19. 9	14. 0							
20. 50	17. 30							
	(†)							
23. 14	22. 5							
23. 59	22. 50							
July 4		July 4		July 4				
0. 0	22. 22. 50	0. 0	·0957	0. 0	·01016	9. 56	79 ·0	83 ·0
2. 0	25. 5		***	0. 35	·00920	21. 40	76 ·5	77 ·0
	***	4 ·13	·0961	2. 15	·01008			
5. 42	15. 10	4. 38	·0976	3. 21	·00981			
7. 37:	16. 5	5. 1	·0963	4. 12	·01010			
8. 12	18. 30	6. 2	·0975	4. 36	·01070			
	***	6. 21	·0961	4. 56	·01053			
14. 0	18. 30	6. 44	·0983	5. 11	·01071			
	***	7. 3	·0965	5. 42	·01048			
15. 12	25. 10		***	6. 42	·01073			
	***	18. 0	·0987	8. 12	·00981			
17. 58	20. 30	19. 45	·0951	9. 2	·01000			
18. 32	13. 0		***	10. 30:	·00961			
19. 10	17. 35	23. 59	·0937	14. 10	{·01163			
20. 0	18. 25				{·01197			
20. 42	12. 30			14. 22	·01267			
21. 5	12. 30			19. 13	·01200			
22. 3	17. 45			20. 30	·01180			
	(†)			21. 42	·01222			
				23. 11	·01117			
July 5		July 5		July 5				
0. 57	22. 23. 30	1. 0	·0941	2. 10	·00901	1. 44	82 ·5	84 ·5
	***		***	3. 28	·00812	3. 40	84 ·0	87 ·0
9. 32	18. 5	3. 36	·0945	3. 45	·00866	9. 40	84 ·0	87 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 5		July 5		July 5				
h m	° ′ ″	h m		h m		h	°	°
10. 10	22. 15. 0	4. 0	·0961	11. 10	·01190	21. 40	76 ·0	77 ·0
	***	6. 3	·0941	12. 42	·01100			
11. 10	19. 20		***	13. 22	·01015			
12. 30	14. 30	10. 59	·0966	15. 46	·00940			
12. 58	24. 35	11. 6	·0983	16. 4	·00910			
13. 50:	16. 30	12. 21	·0972	16. 50	·00950			
	***	12. 46	·0996	21. 51	·00970			
15. 18	21. 25	13. 15	·0972	23. 45	·00770			
	***		***					
16. 0	14. 0	14. 45	·0971					
	***	15. 13	·0981					
19. 7	12. 25	15. 32	·0987					
	***	15. 54:	·0993					
23. 59	20. 45	18. 50	·0985					
		19. 14	·0965					
		23. 38	·0939					
July 6		July 6		July 6				
2. 3	22. 23. 10	1. 0	·0954	1. 11	·00620	1. 40	79 ·0	83 ·0
7. 45	19. 30	2. 30	·0941	3. 20	·00670	3. 40	84 ·0	87 ·0
8. 30	15. 30		***	6. 0:	·00626	9. 40	82 ·5	85 ·5
10. 0	18. 55	5. 17	·0971	12. 10	·01105	21. 40	71 ·0	73 ·0
10. 36	16. 0		***	15. 33	·00933			
	***	6. 34	·0963	16. 21	·00964			
12. 30	18. 50		***	17. 28	·00893			
	***	15. 16	·0994	21. 0	·00925			
13. 50	14. 35	15. 46:	·0974	23. 30	·00741			
15. 31	15. 25	16. 25	·0996					
	***		***					
16. 5	19. 30	17. 15	·1002					
	***	17. 30	·0985					
17. 16	13. 0		***					
	***	18. 10	·0988					
17. 48	16. 45	18. 43:	·1007					
17. 58	13. 55	23. 59	·0955					
	***							
18. 30	17. 25							
	***							
19. 39	14. 25							
	***							
22. 10	15. 35							
23. 59	19. 55							
July 7		July 7		July 7				
0. 0	22. 19. 55	0. 48	·0949	2. 2	·00567	1. 40	77 ·0	81 ·0
1. 30	22. 0		***	3. 42	{·00611	3. 40	80 ·0	84 ·0
2. 30	23. 55	2. 22	·0966		{·00891	9. 40	78 ·0	82 ·0
	***	2. 50	·0955	6. 0:	·00825	21. 40	68 ·0	70 ·0
6. 50	21. 30		***	9. 42	·01030			
7. 26	17. 35	10. 5	·0962	9. 46	·00890			
	***	10. 27:	·0983	12. 30	·00960			
8. 7	16. 30	10. 43:	·0971	14. 32	·00842			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 7	° ′ ″	July 7		July 7		h m	°	°
h m		h m		h m				
8. 20	22. 17. 35	11. 21:	·0978	15. 51	·00800			
8. 48	13. 5	11. 15	·0964		***			
10. 4	16. 0	12. 8	·0964	17. 17	·00705			
	***	14. 11	·1000	19. 21	·00750			
10. 20	13. 30	14. 30	·0988	20. 53	·00802			
10. 38	20. 0		***	22. 12	·00761			
	***	15. 50	·1010	22. 28	·00740			
11. 26	9. 0	16. 30	·0975	22. 40	·00745			
11. 42	12. 45	17. 45	·1019	23. 45	·00630			
12. 16	11. 30	18. 50	·1000	23. 55	·00600			
	***	19. 17	·0954					
13. 20	17. 20	23. 33	·0929					
13. 30	16. 0	23. 59	·0941					
14. 13	24. 10							
	***							
14. 32	19. 5							
14. 52	19. 0							
15. 12	14. 30							
15. 30	17. 0							
15. 57	17. 0							
	***							
16. 27	34. 0							
16. 29	31. 30							
16. 42	36. 10							
	***							
17. 32	15. 25							
	***							
18. 50	25. 0							
19. 23	19. 0							
20. 8	25. 40							
20. 37	20. 40							
20. 59	26: 5							
21. 28	22. 5							
21. 51	29. 25							
22. 29	24. 30							
22. 42	29. 25							
23. 30	33. 0							
July 8		July 8		July 8				
0. 0	22. 31. 15	0. 30	·0957	0. 30	·00505	1. 49	75 ·0	77 ·5
0. 39	26. 5	4. 15	·0951	1. 30	·00560	3. 40	78 ·6	82 ·0
3. 16	21. 35	8. 40	·0973	3. 16	·00633	9. 40	78 ·0	82 ·0
9. 0	18. 0	11. 17	·0968	8. 0:	·00538	21. 40	70 ·5	72 ·0
9. 37	15. 0	19. 1	·1005	13. 6	·01020			
10. 25	18. 10	19. 34	·0990	16. 0	·00941			
	***	23. 18	·0969	17. 15	·00950			
11. 30	16. 5			20. 0	·00875			
	***			21. 0	·00893			
21. 3	15. 5			23. 0	·00771			
23 59	21. 30							

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 9	° ′ ″	July 9		July 9		h m	°	°
h m		h m		h m				
1. 8	22. 23. 35	0. 0	·0972	0. 33	·00448	1. 37	77 ·0	80 ·0
6. 32	22. 25	6. 50	·0980	1. 52	·00550	3. 40	80 ·0	83 ·0
	***		(†)	6. 33	·00555	9. 40	80 ·0	83 ·0
7. 11	22. 0	9. 40	·0950*	6. 45	·00538	21. 44	71 ·0	71 ·5
7. 18	23. 25		(†)	7. 17	·00545			
7. 27	20. 5	21. 40	·0966*	7. 27	·00524			
8. 9	22. 0		(†)	7. 40	·00541			
8. 32	12. 50			8. 9	·00541			
	***			8. 15	·00530			
9. 36	20. 20							
	***			8. 38:	·00570			
13. 4	18. 15			12. 23	·00980			
13. 32	30. 30			13. 28	·00900			
	***			14. 8	·00703			
14. 55	5. 0			16. 57	·00810			
	***			19. 15	·00700			
15. 33	14. 25			22. 30	·00700			
	***			23. 52	·00547			
16. 34	9. 10							
17. 5	22. 0							
17. 18	21. 15							
17. 42	25. 30							
18. 0	23. 25							
18. 38	30. 0							
	***							
18. 52	28. 25							
	***							
19. 54	31. 10							
	***							
21. 8	21. 5							
21. 21	23. 20							
	***							
22. 24	20. 0							
	***							
23. 59	26. 10							
July 10		July 10		July 10				
1. 26	22. 28. 30	1. 55	·0975	0. 55	·00360	1. 40	76 ·0	77 ·5
1. 46	31. 30	2. 40	·1006	1. 30	·00393	3. 40	83 ·0	88 ·5
	***	3. 2	·0974	2. 51	·00494	9. 40	77 ·0	79 ·0
2. 19	30. 0	3. 20	·1022		***	22. 40	68 ·0	68 ·5
	***	3. 29	·0959	3. 41	·00627			
3. 2	33. 25	3. 40	·1021	6. 13	·00564			
3. 10	30. 5	4. 10	·0991	8. 39:	·00540			
3. 31	39. 40		***	10. 45	·00698			
3. 49	13. 35	5. 13	·0987	10. 57	·00681			
	***		***	11. 27	·00732			
4. 53:	28. 10	6. 30:	·1016	11. 32	·00701			
5. 13:	22. 10	7. 15	·0971	12. 12	·00830			
	***	7. 30	·0985	12. 39	·00771			
6. 23	24. 35	10. 33	·0973	12. 45	·00780			
6. 40	18. 25	10. 49	·1006	13. 43	·00750			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 10		July 10		July 10				
h m	° ′ ″	h m		h m		h m	°	°
6. 45	22. 22. 0	10. 57	·0998	14. 45	·00642			
7. 3	18. 10	11. 5	·1036	15. 33	·00640			
7. 6	21. 35	11. 13	·1015	16. 20	·00705			
7. 15	15. 30	11. 24	·1047	21. 0	·00760			
7. 20	23. 0	11. 44	·0961	23. 10	·00695			
8. 0	6. 30	12. 0	·1012					
8. 44	11. 25	12. 37	·0964					
10. 54	18. 40	12. 56	·0986					
11. 29	16. 30	13. 27	·0961					
12. 0	0. 25	13. 58	·0985					
12. 30	22. 14. 50							
12. 58	21. 54. 0	14. 50	·0962					
13. 7	58. 35	17. 7	·1000					
13. 22	21. 55. 30	18. 4	·0993					
14. 6	22. 6. 5	19. 7	·0999					
14. 50	21. 58. 20	19. 50	·0985					
15. 23	22. 9. 5							
15. 50	2. 30	23. 10	·0973					
18. 33	14. 15							
19. 10	12. 40							
20. 30	16. 30							
22. 30	18. 45							
July 11		July 11		July 11				
0. 0	22. 19. 25	0. 13	·0984	0. 10	·00591	9. 40	76 ·0	78 ·0
		0. 28	·0974	1. 30	·00335	21. 40	66 ·0	68 ·0
1. 18	24. 5	0. 45	·0980	5. 0	·00511			
2. 57	20. 40			8. 27:	·00410			
3. 30	22. 20	1. 44	·0959	12. 45	·00900			
4. 29	13. 0	2. 31	·0987	19. 0	·00800			
6. 30	19. 55	3. 33	·0991	23. 0	·00760			
12. 0	17. 35	4. 12	·0979					
		4. 37	·1000					
14. 46	20. 0							
18. 37	12. 50	5. 34	·0980					
18. 50	13. 30	14. 46	·1000					
19. 12	11. 5	17. 45	·1000					
		19. 29	·1010					
20. 0	15. 0	20. 14:	·0993					
		21. 28	·1018					
21. 57	12. 55	23. 50:	·1000					
23. 59	21. 0							
July 12		July 12		July 12				
0. 42	22. 23. 0	0. 30	·0998	1. 30	·00650	1. 40	69 ·0	73 ·0
5. 38	22. 30	3. 56	·1002	2. 0	·00586	3. 40	72 ·0	73 ·0
7. 48	15. 25	5. 16	·1020	3. 32	·00280	9. 40	73 ·0	75 ·0
		5. 59:	·0993	4. 12	·00465	21. 40	67 ·0	68 ·0
9. 12	15. 30	6. 32	·1013	5. 15	·00360			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 12		July 12		July 12				
h m	° ′ ″	h m		h m		h m	°	°
10 32	22. 16. 50	8. 8	·1011	9. 32:	·00340			
10. 59	20. 0	9. 32	·1006	14. 31	·00763			
11. 26	17. 0	10. 10	·1011	18. 32	·00713			
11. 51	18. 35	10. 45	·0997	22. 0	·00691			
12. 10	17. 10	14. 17	·1005	23. 42	·00574			
13. 2	22. 0							
14. 15	12. 50	18. 3	·1010					
16. 2	9. 55	18. 47	·1023					
17. 30	13. 30	22. 0	·0987					
18. 12	11. 30	22. 24	·0960					
20. 0	17. 0	23. 59	·0982					
21. 6	17. 20							
21. 13	15. 15							
21. 23	18. 0							
21. 30	15. 0							
23. 59	22. 35							
July 13		July 13		July 13				
1. 10	22. 23. 25	0. 30	·0982	1. 44	·00455	1. 43	74 ·0	77 ·0
				2. 20	·00502	3. 40	77 ·0	79 ·0
5. 20	22. 25	3. 33	·0970	5. 40	·00500	9. 40	75 ·0	77 ·0
				5. 57	·00520	21. 40	68 ·0	71 ·0
6. 2	19. 0	4. 0	·0983	6. 10	·00500			
6. 18	12. 35			7. 40:	·00461			
6. 38	17. 25	4. 15	·0973	12. 35	·00899			
7. 0	16. 35			16. 44	·00800			
		4. 40	·0981	21. 46	·00824			
7. 15	18. 10			23. 30	·00760			
		4. 57	·0975	23. 55	·00705			
11. 0	17. 40							
		5. 17	·0984					
12. 27	10. 0							
12. 52	12. 30	5. 35	·0969					
14. 30:	12. 0							
15. 14:	19. 0	6. 2	·1014					
15. 34:	17. 35							
15. 51	20. 15	6. 12	·0987					
17. 30:	14. 10	6. 21	·1005					
18. 0	16. 25							
19. 3	15. 40	6. 47	·0975					
		11. 16	·0989					
20. 3	16. 10	11. 45	·1005					
20. 20	13. 5	13. 8	·0988					
		14. 46	·0984					
22. 45:	20. 5	17. 28:	·0998					
23. 11	18. 30	18. 0	·0992					
		19. 34	·0996					
23. 59	21. 0	22. 13	·0987					
		23. 59	·0997					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

On July 10, $3^h.40^m$ and $22^h.40^m$, the thermometer readings for H. F. and V. F. have been interchanged. They were taken by an inexperienced assistant, and there is reason to think that they were wrong.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 14		July 14		July 14				
h m	° ′ ″	h m		h m		h m	°	°
1. 12	22. 25. 25 ***	0. 30	·0982 ***	1. 36	·00421	1. 40	73 ·0	77 ·0
				2. 2	·00581	3. 40	76 ·0	78 ·0
3. 41	25. 0 ***	1. 57	·0994 ***	3. 2	·00440	9. 40	75 ·0	78 ·0
				4. 2	·00425	21. 40	70 ·0	72 ·0
5. 21	19. 30 ***	2. 40	·0998 ***	5. 31	·00489			
				8. 22:	·00425			
6. 47	22. 0 ***	3. 3	·0964 ***	11. 2	·00525			
				11. 14:	·00512			
8. 31	18. 0 ***	3. 45	·0992 ***	14. 2	·00891			
				15. 44	·00842			
10. 6	19. 40 ***	3. 52	·0985 ***	16. 42	·00850			
				17. 38	·00812			
10. 45	16. 0	4. 10	·0991 ***	21. 48	·00830			
10. 51	17. 30			23. 30	·00710			
10. 59	14. 0	4. 20	·0979 ***					
11. 12	20. 5 ***							
		4. 45	·0982 (†)					
12. 2	12. 10 ***							
		9. 40	·0996* (†)					
13. 0	12. 0							
14. 15	17. 35	20. 38	·0989					
14. 43	21. 0 ***	23. 16	·0976					
15. 42	17. 15 ***							
16. 57	19. 55 ***							
17. 36	14. 20 ***							
18. 29	18. 35 ***							
18. 40	17. 15 ***							
19. 7	19. 5 ***							
20. 14	16. 50							
20. 30	17. 45							
20. 50	16. 10 ***							
22. 14	21. 55							
22. 34	19. 5							
23. 59	22. 0							
July 15		July 15		July 15				
0. 18	22. 23. 0 ***	0. 44	·0977	1. 0	·00495	1. 43	75 ·5	78 ·0
		1. 14:	·0965	1. 15	·00400	3. 40	79 ·0	82 ·0
3. 38	23. 30 ***	1. 43	·0978 ***	4. 33	·00522	9. 40	80 ·0	84 ·0
				5. 0	·00525	21. 46	67 ·0	71 ·0
6. 12	20. 10	5. 43	·0972	5. 40	·00540			
6. 35	16. 0 ***	6. 7	·0989	6. 30	·00520			
		6. 23:	·0975	8. 43	·00491			
7. 34	18. 0 ***	6. 46	·0983	10. 15	·00514			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 15		July 15		July 15				
h m	° ′ ″	h m		h m		h m	°	°
9. 6	22. 16. 40 ***	7. 1	·0974	10. 58	·00560			
		8. 2	·0989	12. 0	·00700			
9. 16	18. 15 ***	8. 58	·0983	13. 0	·00885			
		9. 10	·0997 ***	16. 33	·00863			
9. 36	15. 25 ***			18. 13	·00798			
		10. 27	·0974 ***	21. 56	·00825			
10. 15	13. 35 ***			23. 30	·00763			
		11. 57	·0991					
12. 58	19. 15 ***	12. 32	·0982					
		13. 27	·0995					
15. 0	13. 30 ***	17. 32:	·1000					
		18. 28	·0989					
16. 12	17. 0 ***	19. 33	·1007					
		21. 8:	·0944					
16. 51	14. 20 ***	22. 21	·0984					
		23. 37	·0973					
18. 3	21. 25 ***							
20. 9	12. 30 ***							
21. 32	25. 30							
22. 11	19. 25							
23. 59	22. 50							
July 16		July 16		July 16				
1. 3	22. 24. 30 ***	1. 0	·0969 ***	1. 0	·00432	1. 40	73 ·0	77 ·0
				5. 0	·00550	3. 40	79 ·0	84 ·0
2. 17	25. 55	1. 21	·0983 ***	10. 15	·00498	9. 40	80 ·0	83 ·0
2. 47	23. 0 ***			12. 0	·00702	21. 40	72 ·5	75 ·5
		1. 28	·0971 ***	14. 26	·00985			
7. 10	16. 10			20. 10	·00910			
8. 42	18. 0	1. 37	·0981 ***	22. 40	·00875			
9. 9	16. 35			23. 55	·00915			
9. 29	18. 0	1. 45	·0972 ***					
9. 46	16. 20							
10. 0	18. 25 ***	4. 33	·0963 ***					
11. 8	14. 20 ***	9. 38	·0983 ***					
13. 2	17. 25	9. 47	·0992 ***					
14. 0	24. 10 ***							
		10. 50	·0971 ***					
15. 46	15. 50 ***							
		13. 32	·0983 ***					
16. 39	17. 0 ***							
		13. 44	·0975 ***					
17. 15	14. 5 ***							
		14. 2	·0988 ***					
18. 0	17. 5 ***							
		16. 31	·0998 ***					
19. 0	14. 10 ***							
		17. 50	·0979 ***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 16		July 16						
h m	° ′ ″	h m		h m		h m	°	°
20. 33	22. 17. 0	19. 50	·0989					
	...		***					
22. 0	17. 0	23. 30	·0972					
23. 59	22. 35		***					
		23. 59	·0975					
July 17		July 17		July 17				
1. 0	22. 24. 0	1. 0	·0985	1. 40:	·00900	1. 46	74 ·0	77 ·0
	...		***	8. 0:	·00591	3. 40	75 ·0	78 ·0
4. 30	23. 0	3. 7	·0997	11. 54	·00905	9. 40	73 ·0	77 ·0
	...		***		·00885	23. 25	63 ·0	67 ·0
9. 30	17. 5	4. 23	·0989	14. 0	·00839			
	...		***	15. 6	·00810			
10. 32	20. 0	4. 45	·1006	15. 18	·00786			
	...		***	15. 31	·00812			
11. 22	18. 0	6. 58	·0987	21. 0	·00760			
	...		***	23. 24	·00742			
13. 51	18. 0	9. 13	·0993					
	...	18. 23	·1016					
14. 14	21. 35	21. 36	·0991					
	...	23. 59	·0984					
15. 0	18. 35							
	...							
18. 47	14. 10							
18. 53	15. 45							
19. 33	14. 0							
	...							
23. 29	22. 0							
July 18		July 18		July 18				
0. 0	22. 23. 20	0. 30	·0981	0. 0	·00683	12. 22	63 ·0	66 ·0
2. 0	25. 20	3. 0	·0991	2. 18	·00277	21. 40	66 ·0	68 ·0
7. 27	15. 0		***	6. 30	·00375			
9. 36	16. 50	7. 43	·0983	8. 36	·00340			
10. 9	20. 0	13. 17	·1000	10. 0	·00354			
11. 9	15. 45	13. 45	·0996	10. 41:	·00360			
14. 30	19. 15	18. 50	·1012	14. 4	·00850			
15. 4	17. 0	21. 45	·0985	18. 45	·00751			
19. 56	13. 30	23. 59	·0991	21. 28	·00784			
23. 59	22. 0			23. 0	·00749			
July 19		July 19		July 19				
1. 13	22. 25. 10	1. 15	·0984	1. 30	·00498	1. 40	70 ·0	73 ·0
8. 17	18. 5	1. 40	·0989	2. 0	·00408	3. 40	72 ·5	75 ·0
8. 34	16. 0	1. 57:	·0982	2. 26	·00314	9. 40	73 ·0	76 ·0
10. 30	19. 30	4. 36:	·0981	5. 40	·00420	21. 40	66 ·5	70 ·0
15. 30	18. 10	6. 2	·0998	9. 35:	·00363			
19. 0	14. 30		***	14. 32	·00860			
23. 59	22. 0	8. 45	·1000	16. 0	·00830			
		17. 45	·1012	17. 10	·00840			
		18. 42	·1000	20. 0	·00810			
		22. 42	·0983	23. 41	·00754			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		July 19						
h m	° ′ ″	h m		h m		h m	°	°
		23. 59	·0983					
July 20		July 20		July 20				
0. 45	22. 23. 45	0. 47	·0983	0. 0	·00730	1. 40	69 ·5	73 ·0
2. 30	26. 5	5. 30:	·1000	1. 30	·00572	3. 40	70 ·0	74 ·0
6. 2	18. 35	17. 3	·1019	3. 50	·00284	9. 40	71 ·0	74 ·0
14. 0	19. 25	21. 27	·1009	9. 40:	·00320	21. 40	65 ·5	67 ·5
14. 52	17. 0	23. 0	·0989	15. 18	·00828			
16. 12	19. 30			19. 13	·00762			
18. 45	15. 5			22. 30	·00755			
21. 30	16. 5			23. 38	·00650			
23. 59	19. 20							
July 21		July 21		July 21				
0. 40	22. 22. 0	0. 0	·0989	0. 0	·00615	1. 40	69 ·0	73 ·0
2. 36	26. 0	1. 15	·0990	1. 0	·00511	3. 40	66 ·0	72 ·0
	...	3. 56	·0991	2. 17	·00270	9. 40	73 ·0	77 ·0
6. 30	19. 5	4. 45	·0984	6. 0	·00380	21. 40	68 ·5	68 ·0
	...	6. 0	·0989	10. 0:	·00358			
17. 0	16. 45	6. 32	·0983	14. 40	·00840			
	...	7. 40	·1000	21. 0	·00741			
21. 0	12. 35	8. 6	·0996	22. 30	·00753			
	...	19. 28	·1017	23. 41	·00705			
23. 59	22. 55	22. 28	·1008					
	...	23. 59	·0991					
July 22		July 22		July 22				
0. 59	22. 25. 40	1. 15	·0986	0. 0	·00683	1. 40	68 ·5	73 ·0
3. 0	24. 35	13. 52	·1000	2. 0	·00381	3. 40	71 ·0	75 ·0
	...	18. 15	·1018	2. 40	·00224	9. 40	73 ·0	75 ·0
7. 0	16. 35	23. 59	·0984	6. 0	·00340	21. 40	63 ·0	64 ·5
16. 30	16. 25			8. 18:	·00302			
20. 0	11. 30			13. 18	·00802			
23. 59	23. 20			18. 30	·00670			
				21. 56	·00682			
				23. 33	·00555			
July 23		July 23		July 23				
1. 12	22. 25. 30	0. 30	·0984	1. 42	·00269	1. 40	69 ·0	72 ·0
8. 10	19. 35	1. 37	·0991	3. 21	·00372	3. 40	73 ·0	76 ·5
8. 42	15. 45	2. 13	·0984	7. 10	·00366	9. 40	73 ·0	76 ·5
9. 15	17. 10		...	8. 20:	·00331	21. 40	68 ·0	70 ·0
17. 0	16. 20	8. 2	·1004	13. 44	·00850			
17. 41	14. 0	9. 38	·0994	19. 0	·00777			
19. 0	13. 10	18. 50	·1016	20. 40	·00793			
19. 30	16. 0	21. 10	·0992	22. 0	·00748			
22. 0	17. 5	23. 59	·0976	23. 30	·00563			
23. 59	23. 30							
July 24		July 24		July 24				
0. 43	22. 26. 35	0. 42	·0976	1. 30	·00372	1. 40	74 ·0	78 ·0
1. 30	28. 45		...	6. 11	·00430	3. 40	76 ·5	78 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 24		July 24		July 24				
h m	° ′ ″	h m		h m		h m	°	°
7. 30	22. 18. 30	2. 5	·0972	8. 10:	·00398	9. 40	75 ·5	78 ·0
13. 19	16. 45	15. 53	·0990	14. 30	·00898	23. 18	69 ·0	72 ·0
15. 31	18. 5	16. 30	·1004	17. 30	·00844			
15. 46	16. 25	17. 10	·0994	20. 0	·00850			
16. 16	22. 15	22. 35	·0988	23. 16	·00804			
17. 10	14. 5	23. 36	·0980					
19. 18	12. 5							
23. 23	24. 0							
July 25		July 25		July 25				
0. 0	22. 24. 30	0. 30	·0992	0. 0	·00780	10. 4	73 ·0	77 ·0
2. 0	29. 0	1. 24	·0986	5. 28	·00365	21. 40	69 ·5	70 ·5
3. 36	23. 20	1. 40	·0996	6. 30	·00384			
8. 30	19. 0	4. 27	·0990	8. 17:	·00348			
9. 12:	15. 25	7. 56	·1009	15. 0	·00860			
10. 50	22. 15	8. 56	·0990	16. 17	·00839			
11. 27	15. 0	19. 0	·1004	17. 29	·00855			
16. 0	19. 30	21. 30	·0992	19. 0	·00840			
20. 6	16. 5	23. 34	·1008	23. 47	·00824			
22. 0	20. 30							
22. 34	19. 10							
23. 59	23. 5							
July 26		July 26		July 26				
0. 42	22. 28. 10	0. 36	·0996	1. 0	·00772	1. 40	70 ·0	73 ·0
2. 20	29. 0	1. 54	·1014	4. 16	·00340	3. 40	72 ·0	76 ·0
7. 19	19. 0	2. 34	·0990	4. 19	·00357	9. 40	73 ·0	76 ·0
10. 13	22. 35	3. 12	·1006	5. 20	·00373	21. 40	68 ·0	70 ·5
10. 53	18. 30	4. 40	·0995	8. 18	·00340			
	***	6. 20:	·1012	10. 33:	·00350			
11. 45	21. 25	7. 20:	·1002	16. 40	·00861			
	***	7. 50:	·1012	20. 16	·00795			
13. 46	19. 10	14. 26	·1016	22. 30	·00791			
	***	16. 36	·1008	23. 44	·00720			
14. 30	20. 50		***					
	***	20. 0	·1021					
15. 19	18. 0	20. 20	·1004					
	***	20. 33	·1012					
16. 58	21. 20	21. 38	·1010					
	***	23. 59	·0992					
19. 9	16. 30							
19. 27	13. 10							
	***							
20. 40	23. 30							
	***							
21. 27	19. 30							
21. 44	21. 35							
	***							
23. 59	24. 45							
July 27		July 27		July 27				
0. 37	22. 25. 30	1. 0	·0994	1. 0	·00575	1. 40	73 ·0	74 ·5
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 27		July 27		July 27				
h m	° ′ ″	h m		h m		h m	°	°
4. 45	22. 20. 0	2. 10	·1000	2. 30	·00356	3. 40	74 ·0	77 ·0
	***	2. 34	·0990	2. 53	·00405	9. 40	74 ·0	77 ·0
10. 37	20. 25	3. 0	·1002	5. 49	·00430	21. 40	65 ·5	69 ·0
11. 28	16. 5	3 45	·0983	8. 13:	·00374			
11. 43	18. 0		***	12. 58	·00869			
12. 19	13. 30	4. 58	·0998	15. 0	·00741			
13. 8	18. 50	5. 28	·0972	19. 0	·00740			
13. 30	15. 25		***	22. 30	·00721			
13. 52	22. 10	10. 56	·1000	23. 45	·00662			
14. 32	15. 30	11. 10	·1020					
15. 45	14. 20	11. 24	·1008					
16. 57	18. 25	11. 34	·1014					
17. 28	15. 0	12. 48	·0988					
18. 30	22. 35		***					
	***	13. 34	·1012					
18. 35	21. 0	13. 47	·1002					
	***		***					
19. 0	30. 0	15. 32	·1015					
	***	15. 58	·1006					
19. 39	22. 50		***					
	***	17. 0	·1024					
19. 50	24. 40	18. 40	·1006					
	***		***					
20. 38	21. 30	20. 0	·1014					
	***		***					
20. 52	24. 20	23. 8	·0965					
	***		***					
21. 26	21. 15	23. 59	·0976					
	***							
22. 14	25. 40							
	***							
23. 59	25. 10							
	***							
July 28		July 28		July 28				
0. 40	22. 25. 0	0. 36	·0976	1. 0	·00480	1. 40	71 ·0	74 ·0
	***		***	1. 46	·00303	3. 40	74 ·0	77 ·0
2. 50	31. 0	2. 10	·0970	3. 38	·00412	9. 40	74 ·0	77 ·0
	***	2. 48	·0938		·00580	21. 40	68 ·0	70 ·0
7. 11	18. 30		***	4. 50	·00403			
	***	3. 33	·0974	6. 34	·00430			
7. 28	19. 35	4. 4:	·0956	8. 2	·00405			
	***		***	10. 46:	·00484			
8. 23	11. 55	5. 50	·1006	14. 15	·00837			
9. 31	19. 10	6. 8:	·0988	20. 0	·00790			
	***	6. 30	·1006	21. 45	·00805			
10. 41	20. 0	6. 52	·1006	23. 35	·00746			
11. 0	17. 5	7. 2:	·0996					
	***	7. 29	·1006					
13. 42	20. 5	8. 8	·0983					
	***		***					
14. 32	16. 15	13. 30	·1008					
	***		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 28		July 28						
h m	° ′ ″	h m		h m		h m	°	°
15. 41	22. 20. 45 ***	15. 12	·0994 ***					
16. 30	17. 20	18. 30	·1004					
16. 40	19. 30 ***	20. 4	·0988					
		21. 9	·0949 ***					
18. 15	13. 30 ***							
		22. 28	·0978 ***					
19. 14	15. 10 ***							
		23. 59	·0975					
19. 50	17. 10 ***							
20. 16:	15. 25 ***							
21. 53	27. 5							
22. 1	24. 5							
22. 13	25. 40							
22. 28	23. 10							
22. 33	25. 5							
23. 13	21. 25							
23. 59	22. 30							
July 29		July 29		July 29				
1. 1	22. 25. 10	0. 34	·0957 ***	1. 30	·00501	1. 40	72 ·0	75 ·0
1. 9	27. 10			1. 53	·00400	3. 40	73 ·0	78 ·0
1. 28	26. 0 (†)	1. 28	·0966 (†)	2. 19	·00402	9. 40	70 ·0	75 ·0
				3. 35	·00475	21. 40	64 ·0	67 ·5
3. 40	22. 33* (†)	13. 30	·1008	5. 11	·00420 ***			
		14. 36	·0993					
9. 40	11. 0* (†)	15. 35	·1007	7. 37	·00483			
		16. 15	·0974	7. 55	·00460			
13. 30	21. 15 ***	16. 58	·1006 ***	8. 2	·00480			
				8. 17	·00420			
13. 45	19. 0 ***	17. 50	·1010	8. 35	·00410			
		18. 34	·0990	9. 52:	·00475			
14. 50	19. 35	22. 19	·0978 (†)	12. 27	·00885			
15. 12	15. 45			16. 15	·00740			
15. 37	17. 35			17. 36	·00740			
15. 50	15. 25			18. 14	·00702			
16. 13	27. 0			22. 16	·00759			
17. 13	15. 35 ***				(†)			
17. 50	19. 30 ***							
18. 35	13. 35							
18. 52	16. 0							
19. 1	13. 0							
19. 6	15. 55							
19. 16	12. 10 ***							
20. 0	20. 35 ***							
20. 57	17. 15 ***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 29								
h m	° ′ ″	h m		h m		h m	°	°
21. 37	22. 20. 0 ***							
22. 5	16. 0 ***							
22. 58	16. 35 ***							
23. 59	21. 25							
July 30		July 30		July 30				
1. 9	22. 22. 10 ***	0. 12	·0970 ***	1. 30	·00630	1. 40	68 ·0	70 ·0
				3. 6	·00340	3. 40	70 ·0	73 ·0
2. 17	26. 0 ***	2. 47	·0979	5. 18	·00413	9. 40	71 ·5	74 ·0
		3. 12	·0961 ***	8. 3	·00340	21. 40	63 ·0	66 ·0
3. 28	20. 20 ***			8. 46	·00374			
		4. 14	·0992	9. 18	·00353			
5. 31	17. 25 ***	4. 23	·0983	10. 6:	·00362			
		5. 17	·0981	13. 45	·00823			
6. 34	19. 30 ***	5. 27	·0981 ***	18. 30	·00690			
				21. 38	·00707			
7. 44	17. 30 ***	6. 36	·0985	23. 30	·00562			
		6. 45	·0977					
8. 18	11. 25 ***	12. 22	·0991					
		14. 14	·1001					
8. 29	13. 5 ***	16. 28	·1009					
		17. 8	·0988					
8. 36	11. 35 ***	18. 20	·1014					
		19. 31	·0992					
9. 58	19. 0 ***	22. 30	·0974					
		23. 59	·0980					
12. 58	19. 50 ***							
13. 15	21. 35 ***							
16. 18	17. 0 ***							
17. 31	21. 5 ***							
18. 15	20. 50 ***							
18. 58	17. 0 ***							
19. 20	18. 50 ***							
21. 42	19. 25 ***							
22. 30	23. 5 ***							
23. 40	22. 0 ***							
23. 58	23. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 31		July 31		July 31				
h m	° ′ ″	h m		h m		h m	°	°
0. 18	22. 24. 30	0. 15	·0980	1. 6	·00230	1. 40	69 ·0	74 ·0
	***	1. 50	·0968	5. 15	·00460	3. 40	73 ·0	77 ·0
1. 44	26. 5	2. 41	·0992	10. 7:	·00361	10. 4	72 ·0	76 ·5
2. 3	24. 20	3. 0	·0980	14. 51	·00848	22. 40	68 ·0	70 ·5
	***	3. 32	·0980	17. 0	·00800			
4. 50	23. 30	3. 56	·0997	19. 30	·00792			
	***	4. 46	·0997	22. 0	·00820			
5. 30	17. 10	5. 2	·0973	23. 11	·00760			
	***	5. 24	·0988					
7. 8	20. 5	6. 37	·0979					
	***	6. 59	·0992					
9. 15	16. 35	7. 16	·0980					
	***	9. 14	·0985					
9. 26	14. 5	9. 33	·1010					
	***	10. 20	·0985					
9. 57	20. 20	12. 48	·0995					
	***	13. 35	·1016					
10. 47	16. 0	14. 21:	·0993					
	***	15. 16	·1004					
13. 14	20. 10	15. 39	·0983					
13. 26	18. 25	16. 17	·1004					
13. 43	20. 5	20. 14	·1003					
	***	21. 47	·0970					
14. 33	14. 35	23. 22	·0961					
15. 11	16. 15							
15. 56	24. 0							
16. 45	16. 25							
	***							
19. 30	13. 45							
	***							
23. 29	23. 0							
Aug. 1		Aug. 1		Aug. 1				
0. 0	22. 23. 50	0. 32	·0966	0. 30	·00515	8. 10	77 ·0	80 ·0
2. 28	22. 35		***	1. 27	·00304	21. 40	67 ·0	70 ·0
3. 31	18. 40	1. 2	·0952	5. 40	·00820			
4. 32	20. 55		***	8. 1	·00433			
6. 45	14. 55	2. 28	·0977	8. 54	·00450			
9. 27	16. 35	2. 45	·0960	9. 44:	·00430			
9. 44	13. 45		***	14. 29	·00870			
	***	5. 40	·0976	19. 0	·00803			
13. 6	21. 5	6. 20:	·0961	22. 30	·00805			
14. 40	13. 35		***	23. 46	·00770			
15. 41	19. 35	7. 50	·0982					
16. 40	14. 30		***					
18. 52	14. 10	12. 33	·0980					
19. 32	16. 5	13. 3	·0987					
21. 42	16. 0		***					
23. 59	21. 30	14. 20	·0994					
		15. 39	·0990					
		17. 32	·1000					
		23. 59	·0970					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 2		Aug. 2		Aug. 2				
h m	° ′ ″	h m		h m		h m	°	°
1. 8	22. 23. 40	1. 3	·0975	1. 30	·00597	1. 40	71 ·0	74 ·0
	***	2. 30	·0982	3. 1	·00341	3. 40	74 ·0	77 ·0
3. 0	23. 0	4. 7	·0978	5. 0	·00410	9. 40	75 ·0	78 ·0
	***	7. 8	·0977	8. 10:	·00371	21. 45	64 ·0	68 ·0
7. 0	17. 0	12. 28	·0996	13. 29	·00865			
	***	17. 30	·1013	20. 0	·00758			
14. 47	18. 55	22. 0:	·0984	23. 30	·00711			
	***	23. 59	·0984					
18. 23	12. 0							
	***							
21. 0	13. 5							
	***							
23. 59	21. 5							
Aug. 3		Aug. 3		Aug. 3				
0. 44	22. 21. 55	0. 57	·0984	1. 0	·00653	1. 40	66 ·0	69 ·5
	***	3. 5	·1004	3. 8	·00591	3. 40	65 ·0	70 ·0
3. 0	23. 50		***	5. 19	·00620	9. 40	68 ·0	70 ·0
	***	4. 30	·1011	11. 6:	·00615	21. 40	63 ·5	66 ·1
10. 2	17. 20	4. 45	·1000	14. 45	{ ·00772			
	***		***		{ ·00749			
15. 7	13. 40	5. 25	·1028	17. 38	·00738			
16. 42	15. 15		***	21. 42	·00690			
17. 31	12. 5	8. 50	·1022	23. 30	·00595			
	***		***					
19. 46	14. 0	11. 40	·1005					
19. 57	11. 50	12. 3	·1014					
	***	14. 58	·1009					
23. 59	22. 5	15. 15	·1004					
		18. 45	·1004					
			***					
		22. 47	·0985					
			***					
		23. 59	·0989					
Aug. 4		Aug. 4		Aug. 4				
0. 16	22. 23. 10	0. 45	·0991	1. 0	·00435	1. 40	67 ·0	69 ·0
	***	5. 40	·0987	2. 50	·00183	3. 40	69 ·0	71 ·0
7. 0	17. 50	12. 0	·1003	4. 8	·00330	9. 40	70 ·0	72 ·5
	***	13. 30	·1006	4. 28	·00290	21. 40	64 ·0	67 ·5
11. 39	15. 20	18. 8	·1021	9. 36:	·00253			
12. 40	18. 30		***	14. 43	·00760			
13. 8	15. 40	23. 40	·0986	18. 0	·00700			
16. 36	14. 5			20. 43	·00706			
17. 16	15. 30			23. 24	·00635			
17. 48	12. 40							
	***							
20. 17	11. 25							
	***							
23. 47	20. 55							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	Readings of Thermometers. On V. F. Magnet.
Aug. 5	° ′ ″	Aug. 5		Aug. 5			°	°
h m		h m		h m		h m		
0. 0	22. 20. 50	0. 0	·0990	0. 30	·00563	1. 40	67 ·8	69 ·5
	***	1. 0	·0986	2. 58	·00173	3. 40	68 ·5	72 ·5
2. 2	24. 25		***	6. 26	·00248	9. 40	70 ·1	72 ·0
	***	4. 36	·0930		***	21. 40	63 ·5	67 ·0
6. 52	19. 0	4. 52	·1000	6. 46	·00231			
	***	5. 9	·0989	7. 5	·00249			
8. 16	20. 5		***		***			
	***	6. 38	·1017	8. 3	·00211			
9. 0	14. 30	7. 3	·1001	8. 14	·00226			
9. 10	17. 5	7. 13	·1029	8. 22:	·00214			
9. 38	22. 16. 15		***		***			
	***	8. 16	·1027	15. 20	·00730			
10. 1	21. 58. 35	8. 40	·1006	21. 0	·00671			
	***		***	23. 30	·00626			
11. 30	22. 11. 50	9. 5	·1017					
	***	9. 38	·1004					
12. 26	14. 5	10. 3	·1023					
	***		***					
13. 0	11. 0	11. 27	·0997					
	***		***					
15. 40	14. 15	12. 18	·1009					
	***	12. 45	·0993					
15. 57	12. 0		***					
	***	14. 10	·1010					
16. 12	15. 30		***					
	***	19. 15	·1008					
16. 33	13. 30		***					
	***	21. 12	·0992					
17. 0	16. 35	21. 45	·1000					
	***	23. 37	·0994					
18. 22	13. 10							
	***							
18. 44	14. 50							
	***							
19. 5	11. 25							
	***							
19. 30	17. 5							
	***							
19. 33	12. 50							
	***							
19. 40	16. 0							
	***							
19. 48	14. 25							
	***							
23. 59	22. 30							
	***							
Aug. 6		Aug. 6		Aug. 6				
0. 24	22. 24. 0	1. 10	·0989	1. 0	·00525	1. 40	66 ·8	69 ·0
	***		***	4. 41	·00170	3. 40	68 ·0	70 ·0
2. 16	25. 45	6. 42	·1013	7. 51	·00170	9. 47	66 ·0	69 ·0
	***		***	8. 46	·00210	21. 40	62 ·0	66 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	Readings of Thermometers. On V. F. Magnet.
Aug. 6	° ′ ″	Aug. 6		Aug. 6			°	°
h m		h m		h m		h m		
6 45	22. 16. 30	8. 40	·1003	10. 55:	·00203			
7. 46	18. 35		***	15. 7:	·00460			
8. 26	15. 15	14. 32	·1018	18. 7	·00654			
8. 39	16. 55	14. 55	·1010	18. 30	·00641			
	***	17. 30	·0982	21. 0	·00685			
9. 16	16. 0	18. 9	·1002	23. 30	·00610			
	***		***					
14. 38	17. 0	19. 45	·1014					
	***		***					
15. 30	25. 5	21. 52	1000					
16. 13	19. 20		***					
16. 22	20. 10	23. 15	·0972					
16. 50	17. 30	23. 59	·0982					
	***		***					
18. 20	21. 0							
	***							
19. 29	15. 35							
	***							
19. 46	17. 10							
	***							
20. 13	15. 0							
	***							
23. 59	23. 0							
Aug. 7		Aug. 7		Aug. 7				
0. 42	22. 24. 25	0. 36	·0982	1. 15	·00460	1. 40	67 ·5	70 ·0
	***		***	2. 43	·00243	3. 40	69 ·0	73 ·0
2. 30	21. 15	7. 15	·0995	2. 53	·00263	9. 40	71 ·0	76 ·0
	***	8. 38	·0984	8. 2	·00232	23. 15	63 ·0	67 ·0
8. 30	18. 25	9. 40	·0998	9. 38:	·00250			
9. 34	16. 35	11. 10	·1005	15. 46	·00740			
10. 48	19. 0	12. 0:	·1000	21. 0	·00706			
11. 45	17. 0	14. 45	·1002	23. 9	·00690			
12. 34	19. 15	15. 9	·1012					
14. 0	17. 30	15. 45:	·1006					
14. 46	23. 25	16. 50:	·1018					
15. 38	17. 0	17. 40:	·1007					
16. 19	19. 35	18. 36:	·1016					
	***	20. 54	·1002					
17. 16	16. 0	22. 45	·0978					
	***	23. 30	·0982					
20. 53	15. 0							
	***							
23. 27	21. 20							
	***							
Aug. 8		Aug. 8		Aug. 8				
0. 0	22. 21. 20	0. 30	·0982	0. 30	·00622	12. 30	64 ·0	69 ·0
	***		***	4. 10	·00190	21. 40	64 ·0	67 ·0
3. 0	26. 0	2. 0	·0992	4. 22	·00215			
	***	2. 40	·1010	8. 0	·00220			
7. 0	18. 0		***	8. 50	·00257			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 8		Aug. 8		Aug. 8		h m	°	°
h m	° ′ ″	h m		h m				
7. 33	22. 15. 30	3. 30	·0995	11. 15:	·00215			
	***		***	16. 40	·00737			
10. 42	17. 5	5. 10	·1011	21. 0	·00710			
11. 11	21. 50		***	23. 30	·00658			
12. 7	11. 45	5. 50	·1000					
	***		***					
14. 31	18. 0	9. 45	·1000					
15. 0	21. 30		***					
16. 22	17. 55	11. 0:	·1016					
	***	11. 52	·1002					
17. 51	15. 20	12. 10	·1010					
18. 50	15. 30	13. 0	·0998					
20. 0	13. 30		***					
	***	14. 5	·1002					
23. 59	20. 35	15. 0	·0991					
		16. 45	·1010					
			***					
		18. 45	·1000					
		20. 15:	·1005					
			***					
		23. 15	·0981					
		23. 55	·0984					
Aug. 9		Aug. 9		Aug. 9				
1. 3	22. 23. 5	1. 0	·0986	1. 30	·00530	1. 40	66 ·5	69 ·0
2. 30	24. 30		***	5. 0	·00174	3. 40	68 ·0	71 ·0
9. 26	16. 35	6. 10	·1007	5. 28	·00195	9. 40	70 ·0	71 ·0
	(†)	6. 34	·0993	7. 50	·00180	21. 40	62 ·5	64 ·0
21. 36	16. 25	7. 34	·1007	9. 26	·00195			
23. 55	22. 55		***		(†)			
		9. 26	·1005	21. 36	·00320			
			(†)	22. 40	·00310			
		21. 35	·1005	23. 40	·00230			
			***					
		23. 12	·0984					
		23. 59	·0988					
Aug. 10		Aug. 10		Aug. 10				
1. 0	22. 23. 30	1. 0	·0991	2. 37	·01266	1. 40	66 ·0	69 ·0
	***	2. 5	·1000	3. 11	·01155	3. 40	69 ·0	71 ·0
6. 0	17. 0	3. 27	·0990	4. 50	·01104	9. 40	70 ·0	74 ·0
6. 37	12. 0	4. 35	·0997	7. 28	·01123	21. 40	63 ·0	66 ·0
7. 38	17. 10	5. 0:	·0988	9. 1	·01173			
	***		***	9. 58	·01111			
8. 51	12. 40	6. 0	·1011	10. 21	·01122			
	***		***	10. 39	·01111			
9. 12	20. 50	7. 33	·0992	11. 15	·01125			
10. 14	8. 20		***	12. 13	·01235			
10. 27	9. 50	8. 8	·1010	12. 22:	·01228			
10. 46	7. 35		***	15. 16	·01690			
11. 4	10. 0	8. 45	·0990	16. 48	·01650			
11. 29	8. 25	9. 4	·1010	17. 38	·01660			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 10		Aug. 10		Aug. 10		h m	°	°
h m	° ′ ″	h m		h m				
11. 51	22. 2. 25	9. 28	·0989	18. 14	·01651			
12. 20	18. 0	10. 2:	·0988	19. 51	·01680			
	***	10. 30:	·0998	23. 45	·01580			
13. 8	15. 40		***					
13. 31	17. 50	11. 55	·0970					
14. 0	14. 0	12. 15:	·0980					
	***	12. 24	·0971					
14. 38	13. 0	12. 45	·1000					
15. 33	19. 50		***					
	***	15. 7	·0983					
17. 14	11. 40	16. 26	·1005					
	***	18. 20	·1004					
20. 30	16. 35		***					
	***	20. 33	·0987					
21. 13	15. 5	21. 45	·1000					
	***	22. 40	·1000					
23. 59	22. 5	23. 15	·1004					
		23. 59	·1000					
Aug. 11		Aug. 11		Aug. 11				
0. 33	22. 23. 55	0. 30	·1000	1. 30	·01645	1. 40	63 ·5	67 ·0
	***	1. 5	·1000	1. 45	·01660	3. 42	63 ·5	67 ·0
3. 34	25. 0	1. 15	·1009	4. 21	·01471	9. 40	63 ·0	65 ·5
	***	1. 27	·1002	7. 20	·01656	21. 40	61 ·0	63 ·0
5. 59	19. 20	1. 45	·1014	7. 27	·01650			
7. 35	20. 55	2. 5	·1005	8. 16	·01698			
8. 1	17. 10	2. 47	·1006	10. 0	·01680			
	***	3. 34	·1023	13. 30	·01603			
10. 57	21. 0	4. 12	·1009	15. 23	·01601			
11. 33	17. 15		***	16. 17	·01545			
	***	5. 46	·1013	17. 16	·01560			
13. 12	18. 35		***	17. 38	·01580			
13. 40	16. 30	6. 24	·1025	21. 54	·01561			
18. 22	17. 30		***	23. 41	·01530			
18. 41	14. 40	8. 33	·1012					
21. 12	15. 5	8. 45	·1021					
	***		***					
22. 1	19. 55	11. 37	·1014					
22. 28	15. 25		***					
	***	12. 40:	·1037					
23. 30	17. 0	13. 32:	·1020					
	***	15. 37:	·1013					
23. 50	24. 25	16. 6	·1022					
			***					
		17. 2	·1024					
			***					
		20. 45	·0994					
			***					
		22. 33	·0996					
			***					
		23. 41	·1004					
		23. 59	·0993					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V.F. Magnet.
Aug. 12		Aug. 12		Aug. 12				
h m	° ′ ″	h m		h m		h m	°	°
1. 11	22. 25. 5	0. 34	·0998	1. 30	·01431	1. 40	63 ·0	66 ·0
	***	1. 0	·1010	4. 11	·01031	3. 40	64 ·0	67 ·7
5. 0	22. 30	2. 0	·1014	4. 15	·01040	9. 40	64 ·5	68 ·0
	***		***	4. 18	·01030	21. 40	61 ·0	65 ·0
5. 41	18. 25	3. 54	·1022					
	***		***	7. 30	·00990			
7. 59	15. 30	4. 19	·1011	7. 40	·01010			
8. 43	20. 0	4. 35	·1026	7. 50	·00985			
	***		***	10. 33	·00980			
10. 21	18. 30	5. 26	·1018	10. 59	·00961			
10. 46	23. 0	5. 40	·1004	13. 30:	·01032			
11. 38	20. 5		***	21. 44	·01420			
	***	6. 4	·1024	23. 15	·01385			
18. 56	15. 5	6. 59	·1017	23. 49	·01335			
19. 27	13. 45	7. 33	·1026					
	***	7. 46	·1050					
23. 59	28. 0		***					
		8. 46	·1008					
			***					
		10. 9	·1016					
		10. 36	·1028					
		11. 27	·1012					
			***					
		12. 50	·1015					
		13. 48	·1020					
			***					
		19. 57	·1004					
		21. 12	·1007					
		22. 45	·0996					
		23. 27	·1002					
		23. 59	·0990					
Aug. 13		Aug. 13		Aug. 13				
1. 1	22. 29. 10	0. 45	·0991	1. 30	·01063	1. 40	63 ·0	66 ·0
1. 17	29. 50	1. 58	·0983	1. 46	·01001	3. 40	67 ·0	71 ·5
6. 0	15. 25	5. 57	·0989	4. 30	·01100	9. 40	69 ·0	72 ·0
7. 41	11. 55	7. 5	·0998	7. 33	·01107	21. 40	63 ·0	65 ·0
9. 29	17. 30	7. 27	·1009	8. 45	·01140			
10. 10	16. 5		***	11. 30:	·01085			
10. 56	18. 35	7. 50	·1009	16. 40	·01720			
12. 4	15. 40	8. 26	·0994	17. 56	·01633			
13. 1	18. 40		***	21. 51	·01647			
	***	11. 19	·1006	23. 12	·01673			
16. 10	17. 5	12. 40	·0994					
	***	16. 43:	·1003					
17. 3	23. 35	17. 27:	·1022					
	***	19. 0	·1007					
18. 17	12. 35	21. 27	·0995					
	***	22. 28	·0978					
19. 41	12. 0		***					
	***	23. 59	·0980					
21. 13	14. 35							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V.F. Magnet.
Aug. 13								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 23. 5							
Aug. 14		Aug. 14		Aug. 14				
1. 0	22. 25. 15	0. 45	·0982	1. 30	·01368	1. 40	67 ·0	69 ·0
2. 21	26. 10	1. 56	·0975	2. 30	·01121	3. 40	69 ·5	72 ·5
	***	2. 25	·0973	4. 0	·01161	9. 40	71 ·1	73 ·0
5. 49	15. 25	2. 52	·0975	9. 35:	·01115	22. 40	65 ·0	68 ·0
	***		**	17. 26	·01809			
10. 20	17. 0	5. 38	·0986	21. 0	·01780			
10. 37	14. 10		***	23. 5	·01772			
	***	10. 22	·0997					
15. 51	16. 25	10. 42	·1007					
16. 15	19. 50		***					
	***	12. 30	·0995					
18. 9	15. 0		***					
	***	14. 50	·1005					
23. 28	21. 30	18. 0	·1005					
		23. 20	·0991					
		23. 59	·0998					
Aug. 15		Aug. 15		Aug. 15				
0. 0	22. 23. 25	0. 38	·1000	1. 30	·01744	9. 40	70 ·0	72 ·0
1. 0	25. 0		***	7. 46	·01091	21. 40	63 ·5	66 ·5
	***	3. 30	·1002	8. 13	·01125			
10. 0	16. 30		***	11. 0:	·01075			
10. 30	13. 30	3. 56	·1013	18. 10	·01802			
11. 0	16. 40		***	21. 39	·01750			
11. 49	14. 10	4. 52	·0990	23. 0	·01780			
14. 14	18. 55		***					
17. 35	14. 40	6. 3	·0993					
18. 27	17. 15	6. 17	·1000					
20. 0	13. 40	7. 2	·1008					
23. 59	22. 40	7. 45	·1010					
		8. 40	·1000					
		10. 6	·0996					
		10. 40	·1004					
		11. 8	·0996					
		11. 30	·1002					
		12. 30	·0994					
		13. 24	·1000					
		16. 50	·1000					
		17. 36	·1004					
		18. 30:	·0996					
		19. 30:	·1004					
		23. 0	·0987					
		23. 59	·0990					
Aug. 16		Aug. 16		Aug. 16				
1. 0	22. 25. 20	1. 5	·0995	1. 30	·01625	1. 40	66 ·5	69 ·0
5. 34	17. 0	2. 15	·1000	7. 0	·01080	3. 40	67 ·5	70 ·0
7. 50	18. 15	3. 0	·1008	8. 54	·01096	9. 40	70 ·0	74 ·0
16. 0	17. 30	4. 6	·1001	9. 57	·01080	21. 40	67 ·0	71 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Aug. 10. The adjustments of the Vertical Force Magnet were altered so as to increase the readings by 0·01 parts of the whole Vertical Force, nearly.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 16		Aug. 16		Aug. 16				
h m	° ′ ″	h m		h m		h m	°	°
21. 48	22. 16. 35	5. 17	·1012	14. 0:	·01057			
23. 59	25. 5	5. 30	·1007	22. 30	·01300			
		5. 50	·1012	23. 41	·01279			
		18. 25:	·1000					
		22. 10	·0983					
		23. 59	·0986					
Aug. 17		Aug. 17		Aug. 17				
1. 0	22. 27. 0	0. 50	·0988	2. 14	·01160	1. 40	69 ·5	72 ·0
8. 18	17. 35	1. 0	·0995	6. 30	·01133	3. 40	71 ·0	74 ·0
8. 58	15. 30	1. 37	·0999	8. 13	·01155	9. 40	73 ·0	76 ·0
10. 0	18. 5	7. 50	·1010	10. 30	·01120	21. 40	68 ·0	71 ·5
10. 12	17. 5	9. 28	·1000	12. 30:	·01134			
17. 0	17. 10	13. 0	·1007	22. 30	·01864			
20. 30	13. 30	19. 0	·1007	23. 55	·01792			
23. 59	25. 35	23. 10	·0978					
		23. 59	·0982					
Aug. 18		Aug. 18		Aug. 18				
1. 6	22. 28. 5	1. 7	.0988	0. 0	·01790	1. 40	72 ·0	74 ·4
7. 0	16. 0	4. 4	·0996	2. 0	·01604	3. 40	73 ·0	75 ·5
	***	6. 8	·0988	4. 58	·01172	9. 40	73 ·0	77 ·0
17. 0	16. 30	8. 24	·1000	6. 30	·01171	21. 40	64. 0	67 ·5
	***	12. 32	·1001	7. 42	·01135			
20. 50	12. 10	13. 3	·1006	8. 34:	·01150			
	***	14. 0:	·1003	17. 2	·01926			
23. 59	22. 20	18. 36	·1012	21. 49	·01869			
		23. 8	·0984	23. 30	·01861			
		23. 59	·0984					
Aug. 19		Aug. 19		Aug. 19				
1. 9	22. 25. 30	1. 6	·0984	0. 30	·01859	1. 40	74 ·0	77 ·0
	***		***	1. 57	·01730	3. 40	75 ·0	77 ·8
3. 27	26. 0	2. 45	·0989	5. 13	·01161	9. 40	73 ·5	75 ·0
7. 18	15. 25		***	7. 47	·01166	21. 40	64 ·0	69 ·0
13 40	15. 40	3. 3	·1001	8. 30	·01180			
18. 20	14. 20	3. 16	·0990	10. 0	·01120			
20. 53:	10. 40	3. 27	·1000	19. 3	·01961			
23. 59	20. 30	3. 29	·0988	23. 30	·01890			
			***					
		5. 10:	·1000					
		5. 42	·1001					
			***					
		6. 0	·0992					
			***					
		7. 30	·1000					
			***					
		8. 12	·0995					
		9. 0	·1000					
			***					
		9. 28	·1012					
		9 46:	·1000					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
		Aug. 19						
h m	° ′ ″	h m		h m		h m	°	°
		12. 48	·1002					
		13. 10	·1007					
		14. 0	·1004					
		17. 30	·1009					
		19. 45	·1004					
		21. 40	·0984					
		23. 59	·0985					
Aug. 20		Aug. 20		Aug. 20				
0. 4	22. 20. 30	0. 15	·0989	1. 48	·01896	1. 40	68 ·0	73 ·0
1. 30	25. 0	0. 22	·0984	3. 43	·01927	3. 40	68 ·5	73 ·0
7. 0	16. 25		***		·01860	9. 40	67 ·5	70 ·0
13. 0	16. 10	3. 35	·1006	5. 0	·01848	21. 40	66 ·0	68 ·0
17. 30	15. 10	6. 35	·1018	8. 0	·01772			
19. 51:	10. 20	12. 0	·1017	10. 0	·01701			
23. 44	23. 5	18. 15	·1016	13. 0	·01710			
		22. 56	·0989	14. 30	·01719			
		23. 40	·0991	19. 0	·01899			
				23. 30	·01864			
Aug. 21		Aug. 21		Aug. 21				
0. 0	22. 23. 55	0. 0	·0990	1. 30	·01753	1. 40	67 ·0	72 ·0
0. 43	25. 20	0. 45	·0988	5. 13	·01153	3. 40	70 ·0	73 ·0
	(†)	2. 50	·0998	9. 8	·01145	9. 40	73 ·0	77 ·0
3. 1	27. 10	7. 10	·1012	11. 14:	·01107	21. 50	65 ·0	69 ·5
6. 40	20. 35	15. 30	·1015	22. 5	·01876			
	***	17. 30	·1009					
17. 39	20. 0	22. 2	·0996					
	***	22. 15	·0992					
19. 30	16. 10	23. 33	·0993					
	***	23. 59	·0997					
22. 12	21. 30							
23. 59	32. 20							
Aug. 22		Aug. 22		Aug. 22				
1. 0	22. 32. 25	0. 25	·1000	0. 0	·01905	10. 2	74 ·0	77 ·0
6. 30	18. 0	0. 34	·1003	2. 0	·01878	21. 40	65 ·0	68 ·8
	***	2. 0	·1003	6. 1	·01180			
7. 40	14. 5	2. 24	·1009	7. 41	·01200			
	***	3. 42	·0994	8. 20	·01225			
10. 30	21. 0		***	8. 47	·01212			
	***	4. 30	·1001	10. 17	·01163			
11. 30	19. 30		***	17. 28	·01980			
	***	5. 28	·0994	20. 39	·01951			
17. 8	19. 0		***	22. 8	·01915			
	***	6. 56	·1011	23. 34	·01920			
19. 21	15. 5	8. 54	·0989					
	***	9. 39	·1002					
21. 0	22. 25		***					
21. 18	21. 0	10. 51	·0992					
	***	11. 12	·1000					
23. 30	30. 30	11. 38	·0993					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Aug. 22 h m		h m		h m	°	°
		14. 8	·0994					
		14. 40	·1005					
		17. 40	·1012					
		20. 0	·1000					
		20. 33	·0994					
		21. 0	·1002					
		21. 20	·0993					
		22. 33	·0984					
		23. 30	·0985					
		23. 59	·0995					
Aug. 23		Aug. 23		Aug. 23				
0. 0	22. 32. 10	0. 22	·0997	1. 0	·01912	1. 40	68 ·0	71 ·5
0. 42	35. 25			2. 0	·01851	3. 40	69 ·0	74 ·0
	(†)	1. 0	·0986	5. 55	·01169	9. 40	71 ·3	74 ·0
3. 11	32. 0			6. 20	·01170	21. 40	65 ·0	68 ·8
6. 12:	20. 0	1. 36	·0987	7. 39	·01122			
9. 45	26. 55	2. 20	·1000	11. 0	·01126			
11. 8	24. 35	2. 50	·1000	13. 40	·01170			
11. 30:	26. 35	3. 6	·0995	21. 8	·01890			
11. 58	23. 20	3. 29	·1000	21. 39	·01866			
12. 54:	27. 0	4. 4:	·0988	23. 30	·01883			
13. 48	24. 0							
14. 16	27. 0	4. 35	·0993					
15. 0	26. 30	5. 7	·0977					
16. 0	31. 0	7. 46	·1004					
16. 31	28. 0	9. 19	·1008					
17. 48	34. 25	9. 33	·1010					
19. 20	33. 25	10. 27	·1004					
		10. 37	·1011					
19. 57	40. 20	11. 24	·1008					
		11. 52	·0992					
21. 12	33. 55	12. 20	·0991					
21. 58	34. 5	12. 48	·1000					
23. 32	41. 25	13. 24	·1001					
		13. 50	·0992					
		16. 33	·1012					
		16. 54	·1000					
		17. 25	·1000					
		18. 18:	·1016					
		19. 39	·0985					
		20. 21:	·1015					
		21. 58	·1000					
		23. 35	·0991					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 24 h m	° ′ ″	Aug. 24 h m		Aug. 24 h m		h m	°	°
0. 0	22. 24. 10	0. 0	·0986	1. 0	·01910	1. 40	68 ·0	71 ·0
1. 13:	28. 0	0. 44	·0974	3. 51	·01701	3. 40	69 ·0	73 ·0
		1. 0	·0987	4. 8	·01692	9. 40	69 ·0	72 ·0
2. 41	21. 35					21. 40	66 ·0	69 ·0
		2. 23	·0985	7. 3	·01460			
3. 20	21. 20	3. 0	·1002	8. 9	·01495			
		3. 46	·0976	9. 10	·01474			
3. 45	23. 30	4. 10	·1020	10. 54	·01489			
		4. 24	·0999	11. 52:	·01461			
5. 0	21. 0	4. 34	·1009	18. 38	·01900			
6. 0	14. 5	5. 9	·0987	21. 30	·01865			
7. 1	14. 10			22. 47	·01890			
7. 9	10. 35	6. 45	·1023					
7. 42	8. 0							
8. 20	9. 10	8. 4	·0996					
9. 50	16. 5	8. 45	·1014					
11. 10	14. 50	10. 56	·1011					
11. 16	13. 10							
11. 30	14. 0	11. 27	·1027					
11. 58	5. 25	11. 57	·1016					
		12. 4	·1026					
12. 14	10. 40	12. 30:	·1008					
14. 28	16. 20	13. 48	·1012					
15. 2	21. 0	14. 30:	·1000					
15. 38	16. 0	16. 30	·1020					
		17. 0	·1007					
16. 14	18. 50	18. 8	·1004					
		18. 43	·1008					
17. 9	13. 5							
		20. 19	·0978					
18. 0	16. 15							
		21. 30	·0992					
19. 13	12. 10							
		23. 8	·0984					
19. 45	15. 25	23. 30	·0996					
20. 15	13. 55							
20. 50	16. 30							
20. 57	13. 30							
21. 0	17. 10							
21. 4	14. 10							
21. 12	17. 0							
21. 20	16. 10							
21. 36	19. 10							
23. 28	13. 40							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 25		Aug. 25		Aug. 25				
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 26. 25	0. 28	·0962	0. 0	·01838	1. 40	69 ·0	71 ·5
0. 45	24. 20			1. 30	·01690	3. 40	71 ·0	74 ·0
2. 9	25. 0	1. 33	·0992	4. 10	·01170	9. 40	72 ·0	74 ·5
3. 40	23. 9*	2. 2	·0972	4. 30	·01198	21. 40	69 ·0	71 ·0
	(†)							
9. 40	13. 5*	3. 0	·0996	7. 17	·01206			
	(†)	3. 10	·0990	11. 30	·01122			
21. 40	16. 7*	3. 38	·0996	12. 21	·01113			
	(†)			12. 41	·01091			
		4. 10	·0976	13. 6	·01127			
		5. 33	·1000	14. 0	·01160			
		5. 53	·0988	15. 6:	·01116			
		6. 4	·0994	23. 0	·01710			
		6. 10	·0982					
		7. 36	·1007					
			***					
		10. 6	·0996					
		10. 24	·1031					
		10. 52	·1008					
			***					
		11. 33	·1000					
		12. 4	·0979					
		12. 26	·1014					
		12. 44	·0995					
		13. 15	·1008					
			***					
		13. 47	·1005					
			***					
		14. 20	·1017					
			***					
		15. 15	·0994					
			***					
		16. 58	·1023					
		17. 45	·1000					
			***					
		19. 7	·1000					
		20. 0	·0997					
			***					
		21. 4	·0961					
		23. 0	·0998					
			***					
		23. 32	·0980					
Aug. 26		Aug. 26		Aug. 26				
1. 33	22. 22. 0	0. 8	·0993	1. 0	·01640	1. 40	71 ·5	74 ·0
2. 28	16. 0	0. 54	·0996	4. 0	·01221	3. 40	72 ·5	75 ·5
2. 45	17. 15	1. 27	·0982	5. 17	·01258	9. 40	72 ·0	75 ·0
3. 0	15. 30	1. 38	·0986	6. 33	·01212	21. 40	66 ·5	69 ·5
	***	2. 0	·0970	6. 43	·01339			
4. 0	16. 10	2. 45	·0997	8. 0:	·01302			
	***	3. 0	·0990	15. 11	·01969			
5. 1	7. 10		***	17. 20	·01910			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 26		Aug. 26		Aug. 26				
h m	° ′ ″	h m		h m		h m	°	°
5. 30	22. 10. 35	3. 30	·0998	18. 27	·01936			
	***		***	22. 30	·01900			
9. 45	12. 10	4. 24	·0974	22. 51	·01920			
	***		***					
10. 38	9. 35	5. 10	·1013					
12. 30	14. 30		***					
12. 48	13. 0	6. 5	·0981					
	***	7. 5	·1000					
14. 0	16. 0	7. 23	·0990					
	***	8. 0	·0996					
15. 8	13. 0	8. 15	·1012					
	***	8. 45	·0988					
16. 27	16. 25	9. 12	·1000					
18. 28	15. 0	9. 50	·0992					
18. 54	11. 25	10. 12	·1004					
20. 0	13. 40	10. 22	·1000					
20. 20	12. 0		***					
20. 46	14. 0	11. 55	·1000					
21. 15	13. 0	12. 33	·1005					
	***	12. 44	·1002					
23. 50	21. 40		***					
		13. 55	·1012					
			***					
		16. 30	·0998					
			***					
		18. 5	·1004					
		18. 23	·1014					
		18. 34	·1005					
			***					
		20. 3	·1000					
			***					
		21. 23	·0986					
			***					
		23. 33	·0986					
Aug. 27		Aug. 27		Aug. 27				
0. 16	22. 22. 10	0. 22	·0978	1. 30	·01657	1. 40	68 ·7	72 ·0
0. 46	24. 5	0. 40	·0970	3. 3	·01259	3. 40	73 ·0	76 ·5
	***		***	3. 26	·01293	9. 40	74 ·5	76 ·0
2. 50	20. 25	2. 28	·0976	5. 37	·01260	21. 40	67 ·0	70 ·0
3. 5	16. 25	2. 32	·0968	5. 45	·01344			
	***	2. 55	·0968	8. 0:	·01230			
5. 37	13. 50	3. 15	·0993	11. 26:	·01444			
7. 12	7. 55		***	14. 35:	·01680			
8. 57	15. 20	3. 58	·0972	15. 2:	·01723			
9. 45	15. 0		***	16. 32	·01944			
10. 37	8. 50	6. 20	·0991	21. 40	{ ·01924			
10. 58	11. 55	6. 38	·0982		{ ·01786			
11. 6	11. 0	7. 40	·1000	23. 24	·01870			
11. 34	17. 35	8. 0	·0990					
12. 22	13. 5		***					
13. 10	13. 25	9. 15	·0995					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 27		Aug. 27						
h m	° ′ ″	h m		h m		h m	°	°
13. 56	22. 17. 5	10. 47	·1001					
14. 39	14. 35	11. 12	·0990					
15. 0	23. 30	11. 24	·1004					
15. 58	8. 30		***					
	***	11. 48	·1006					
19. 3	13. 35	12. 5	·0991					
	***	13. 48	·0996					
19. 20	12. 35		***					
	***	14. 44	·1013					
20. 39	16. 0	15. 15	·0987					
	***		***					
21. 30	14. 0	16. 2	·1002					
	***	16. 9	·1000					
22. 23	16. 10	17. 5	·1000					
22. 38	19. 0	17. 36	·1005					
23. 22	18. 35		***					
		19. 15	·0994					
			***					
		21. 42	·0990					
		22. 12	·0980					
		22. 27	·0990					
			***					
		22. 23	·0980					
		23. 15	·0986					
Aug. 28		Aug. 28		Aug. 28				
0. 0	22. 18. 30	0. 18	·0993	1. 0	·01885	1. 40	69 ·0	72 ·0
0. 48	17. 0	1. 10	·1011	2. 0	·01812	3. 40	72 ·0	75 ·5
1. 19	20. 0		***	4. 30	·01273	9. 40	74 ·0	76 ·0
	***	1. 56	·0983	7. 30	·01223	21. 40	68 ·5	76 ·0
2. 2	13. 35	2. 24	·1000	9. 18	·01207			
	***		***	10. 28:	·01305			
3. 4	11. 55	3. 4	·0978	16. 35	·01960			
	***		***	16. 42	·01950			
6. 5	13. 0	3. 37	·0990	19. 4	·01975			
	***		***	21. 30	·01964			
6. 51	11. 0	4. 22	·0981	23. 30	·01932			
7. 45	11. 50		***					
8. 3	13. 35	6. 6	·0995					
8. 32	10. 0		***					
9. 0	12. 20	7. 46	·0992					
	***	7. 52	·1000					
10. 7	13. 0	8. 27	·0987					
10. 16	7. 40	8. 40	·0998					
10. 32	15. 35		***					
	***	10. 8	·1002					
10. 57	16. 25	10. 24	·1040					
11. 21	11. 30	11. 8	·1002					
	***	11. 25	·1012					
12. 19:	4. 30	12. 15	·1000					
	***	12. 28	·0992					
13. 12	11. 35		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 28		Aug. 28						
h m	° ′ ″	h m		h m		h m	°	°
13. 29	22. 10. 0	13. 50	·0991					
14. 0	15. 25	14. 45	·1005					
15. 30	15. 20	15. 6	·0998					
16. 10	11. 40	16. 8:	·1009					
16. 48	18. 50	16. 40	·0988					
17. 10	14. 0	18. 8	·1007					
18. 10	12. 0		***					
19. 10	13. 25	19. 48	·1000					
20. 7	11. 0		***					
21. 50	12. 0	22. 0	·0984					
	***	23. 0	·0992					
		23. 59	·0993					
Aug. 29		Aug. 29		Aug. 29				
0. 0	22. 19. 0	0. 15	·0988	0. 0	·01900	9. 40	74 ·5	76 ·0
	***	1. 35	·0978	1. 0	·01810	21. 40	63 ·0	67 ·0
2. 0	19. 25	10. 47	·0992	4. 58	·01215			
	***	11. 20	·1000	7. 21	·01196			
5. 30	12. 30	12. 0	·1000	8. 16	·01217			
8. 0	11. 20	12. 15	·1006	9. 30:	·01195			
12. 22	12. 0	13. 30	·1004	16. 29	·01969			
12. 47	14. 15	14. 10	·0998	16. 37	·01950			
13. 30	12. 15	15. 30	·1008	21. 42	·01932			
15. 22	12. 0	16. 40	·1002	23. 58	·01912			
16. 30	15. 30	18. 45	·1014					
18. 8	16. 10	18. 52	·1020					
	***	21. 30	·0994					
21. 42	10. 10	22. 0	·0996					
22. 14	13. 30		***					
23. 59	16. 30	23. 40	·0980					
		23. 59	·0988					
Aug. 30		Aug. 30		Aug. 30				
0. 23	22. 18. 25	0. 24	·1000	1. 30	·01780	1. 40	66 ·0	69 ·4
2. 6	20. 10	0. 44	·0995	2. 40	·01620	3. 40	71 ·0	74 ·0
3. 47	15. 30	1. 15	·1003	4. 23	·01196	9. 40	74 ·0	74 ·0
5. 9	14. 0	1. 45	·0996	5. 38	·01180	21. 40	61 ·5	64 ·5
9. 15	13. 10	2. 30	·1000		·01302			
10. 7	11. 25		***	7. 30:	·01190			
10. 50	13. 0	3. 40	·0987	13. 43	·01922			
11. 51	10. 30		***	18. 57	·01857			
	***	6. 6	·0992	21. 28	·01820			
17. 8	14. 0	7. 0	·1006	23. 30	·01790			
	***		***					
20. 20	10. 55	9. 42	·1005					
	***	11. 6	·1016					
23. 59	16. 35	11. 42	·1008					
		12. 4	·1012					
		13. 36	·1008					
			***					
		16. 30	·1020					
		18. 42	·1022					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 30 h m		h m		h m	°	°
		18. 54	·1028					
		23. 57	·0991					
Aug. 31		Aug. 31		Aug. 31				
0. 30	22. 17. 40	0. 27	·0989	1. 30	·01560	1. 40	65 ·0	68 ·0
2. 20	19. 0	1. 40	·0990	3. 51	·01090	3. 40	67 ·0	71 ·0
4. 32	13. 5	2. 35	·1000	6. 0	·01105	9. 40	67 ·0	71 ·0
	***	5. 10	·1000	7. 30	·01076	21. 40	62 ·0	65 ·0
14. 30	13. 10	7. 0	·1009	9. 11:	·01075			
16. 33	13. 0	10. 12	·1007	16. 50	·01871			
20. 0	10. 15	10. 36:	·1004	17. 0	·01857			
	***	10. 59:	·1006	21. 31	·01848			
23. 59	20. 0	11. 30:	·1002	23. 38	·01826			
		14. 36	·1014					
		17. 36	·1022					
		21. 57	·1008					
		23. 59	·1009					
Sep. 1		Sep. 1		Sep. 1				
1. 13	22. 21. 30	1. 10	·1003	2. 13	·01596	1. 40	65 ·0	68 ·0
1. 36	25. 30	1. 33	·1024	4. 38	·01139	3. 40	67 ·0	70 ·5
1. 47	24. 30	1. 46	·1014	7. 30	·01169	9. 40	65 ·0	67 ·7
2. 5	26. 30	2. 11	·1028	9. 17:	·01130	21. 40	62 ·5	65 ·5
3. 3	22. 20	3. 2	·1000	17. 45	·01890			
	***		***	20. 0	·01850			
6. 0	18. 0	5. 22	·1020	21. 59	·01830			
	″		″	22. 58	·01850			
6. 43	10. 25	7. 48	·1003	23. 32	·01841			
	″		″					
7. 31	10. 0	19. 12	·1019					
7. 57	13. 55	22. 49	·0992					
8. 8	12. 30	23. 31	·0993					
8. 30	15. 0							
	″							
13. 57	11. 5							
	″							
17. 32	14. 5							
	***							
21. 17	11. 10							
	***							
23. 32	17. 0							
Sep. 2		Sep. 2		Sep. 2				
0. 0	22. 17. 45	0. 30	·0991	1. 0	·01726	1. 40	66 ·0	69 ·7
3. 20	18. 40	2. 29	·1010	3. 8	·01210	3. 40	69 ·5	73 ·5
3. 57	15. 5		″	7. 15	·01200	9. 40	71 ·5	74 ·5
	″	3. 25	·1008	9. 22:	·01209	21. 40	65 ·0	67 ·5
7. 27	9. 10	3. 57	·0989	16. 38	·01910			
7. 47	12. 5	4. 20	·1002	17. 0	·01900			
	″	9. 29	·1003	18. 24	·01910			
9. 13	10. 5	10. 1	·0997	20. 30	·01860			
9. 22	12. 0		″	22. 54	·01911			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 2		Sep. 2						
h m	° ′ ″	h m		h m		h m	°	°
10. 30:	22. 8. 35	14. 36	·1013					
	***	14. 47	·1008					
14. 15	13. 0	15. 17	·1019					
15. 0	10. 30	16. 41	·1006					
15. 41	3. 0	17. 39	·1012					
17. 18	9. 15	18. 12	·0993					
17. 48:	5. 5	19. 7	·1023					
18. 33	14. 35		***					
19. 30	12. 20	22. 21:	·1000					
	***	23. 59	·0994					
21. 12	11. 35							
	″							
23. 45	18. 5							
Sep. 3		Sep. 3		Sep. 3				
0. 0	22. 17. 35	0. 36	·0988	1. 0	·01670	1. 40	70 ·0	73 ·5
	***		***	2. 41	·01253	3. 40	73 ·5	76 ·5
3. 16	16. 40	3. 2	·0994	3. 29	·01293	9. 40	74 ·0	77 ·0
3. 30	19. 20	3. 31	·1008	4. 0	·01272	21. 40	65 ·5	68 ·5
	***	3. 45	·0991	6. 2	·01245			
3. 40	17. 0		″	6. 16	·01276			
	***	10. 5	·0994	7. 30	·01254			
6. 2	8. 0	12. 19	·1004	9. 7:	·01290			
	***	12. 42	·1020	12. 18:	·01585			
10. 57	10. 0	14. 13	·1019	15. 28	·01930			
	***	14. 43	·1004	16. 41	·01920			
11. 39	12. 0		″	18. 11	·01940			
12. 6	10. 25	17. 58	·1017	20. 14	·01889			
12. 32	18. 50	19. 15	·0997	21. 33	{ ·01890			
	***	19. 33	·1005		{ ·01840			
14. 32	5. 0	19. 46	·1003	22. 28	·01865			
	***	20. 9	·1019	23. 30	·01826			
16. 28	11. 30	23. 23	·0981					
16. 48	9. 5	23. 59	·0981					
17. 16	11. 30							
18. 36	9. 35							
19. 46	25. 40							
20. 44	12. 30							
21. 3	15. 20							
21. 33	12. 5							
23. 45	14. 10							
Sep. 4		Sep. 4		Sep. 4				
0. 5	22. 16. 0	0. 32	·0982	0. 0	·01772	1. 40	69 ·0	73 ·5
0. 59	24. 15	1. 0	·1010	0. 30	·01723	3. 40	73 ·0	75 ·5
	***	1. 12	·0986	2. 34	·01260	9. 40	72 ·5	75 ·0
1. 18	21. 0		″	4. 15	·01309	22. 10	66 ·0	69 ·0
	***	1. 35	·0987	7. 0	·01230			
1. 59	25. 0	1. 40	·0996	9. 22	·01300			
	″		″		***			
2. 47	18. 30	2. 14	·0962	10. 40	·01359			
	***		″		″			

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Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	Readings of Thermometers. On V. F. Magnet.
Sep. 4		Sep. 4		Sep. 4				
h m	° ′ ″	h m		h m			°	°
4. 30	22. 20. 0	3. 26:	·0993	11. 25	·01330			
5. 16	11. 40	3. 41	·1012	16. 20	·01974			
		3. 59	·1000	17. 3	·01950			
8. 8:	22. 12. 30	4. 10	·1009	18. 53	·01980			
9. 38	21. 53. 0	4. 43	·0981	21. 42	·01922			
9. 57	22. 3. 0							
10. 12	21. 55. 0	5. 32	·1006					
11. 9	22. 18. 0							
11. 51	21. 59. 0	9. 17	·1004					
12. 11	22. 5. 0	9. 31	·1012					
12. 26	3 40	9. 41	·1000					
		9. 48	·1006					
14. 30	15. 0	10. 4	·0962					
15. 16	8. 0							
15. 42	12. 0	11. 3	·1041					
		11. 37	·0996					
17. 30	6. 0	12. 6	·1010					
		12. 35	·0993					
19. 16	11. 20							
		15. 45	·1000					
20. 22	9. 5	16. 30	·1010					
		17. 34	·1010					
21. 59	12. 25	18. 20	·0990					
		19. 8	·1006					
23. 57	17. 0	20. 8	·1010					
		21. 13	·0994					
		23 ·59	·0995					
Sep. 5		Sep. 5		Sep. 5				
1. 0	22. 20. 30	2. 9	·0997	1. 0	·01942	3. 32	69 ·5	71 ·5
		2. 25	·0989	2. 30	·01860	9. 40	73 ·0	76 ·0
2. 42	21. 0	3. 25	·0996	6. 24	·01262	21. 40	65 ·0	68 ·0
		3. 49	·1009	8. 6	·01305			
6. 7	11. 30			10. 30	·01234			
6. 41	8. 0	5. 26	·0997	11. 0:	·01185			
		5. 54:	·1008	19. 42	·02021			
8. 17	8. 0	6. 17:	·0991	19. 57	·01999			
9. 45	13. 0	6. 57	·1009	21. 44	·01977			
10. 10	7. 30	7. 16	·1003					
11. 0:	17. 30	7. 44	·1008					
11. 47:	10. 0	8. 28	·0993					
12. 38	13. 5	9. 0	·0999					
14. 0	11. 5	9. 43	·0996					
14. 52:	15. 30	10. 30	·1031					
15. 22	13. 0	11. 16	·0993					
		12. 50	·1007					
19. 48	11. 5	13. 47	·0997					
21. 23	9. 5	18. 45	·1006					
		20. 41	·1001					
23. 38	17. 20	21. 8	·1005					
		21. 57	·0992					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	Readings of Thermometers. On V. F. Magnet.
		Sep. 5						
	° ′ ″	h m					°	°
		23. 43	·0994					
Sep. 6		Sep. 6		Sep. 6				
0. 0	22. 17. 5	0. 15	·1000	1. 0	·01750	1. 40	64 ·0	72 ·0
		1. 2	·1015	4. 40	·01696	3. 40	66 ·0	72 ·0
2. 0	20. 30	1. 32	·0998	5. 9	·01692	9. 40	69 ·0	71 ·5
		1. 47	·1005	7. 0	·01700	21. 40	65 ·0	67 ·5
4. 31	16. 30	2. 22	·0995	8. 0	·01601			
		2. 41	·1002	10. 0	·01583			
5. 0	6. 35	3. 20	·0997	11. 46	·01710			
6. 40	16. 20	4. 9	·1007	12. 4	·01700			
8. 11:	22. 15. 0	4. 43	·0978	12. 34	·01711			
8. 47	21. 59. 0	5. 13	·1010	13. 14	·01670			
9. 22	22. 5. 55	6. 2	·1002	15. 30	·01950			
9. 46:	3. 35			15. 33	·01935			
		8. 33	·1009	17. 17	·01902			
10. 58:	11. 40	8. 57	·1053	18. 1	·01934			
11. 30:	10. 10	9. 41	·1037		·01830			
12. 0	19. 0	10. 13	·0990	19. 35	·01950			
12. 17	14. 0	10. 24	·0989	22. 23	·01930			
12. 51:	24. 25	10. 36	·1006					
13. 31	11. 50	12. 20	·1006					
		13. 1	·1016					
14. 3	13. 0	13. 49	·0999					
		15. 19	·0997					
14. 52:	9. 35	15. 38	·0988					
		16. 37	·1008					
15. 43	18. 35	17. 24	·0992					
16. 27	14. 30	18. 50	·1008					
16. 47	17. 5							
		21. 37	·0991					
19. 0	10. 0	23. 54	·0991					
19. 53	9. 30							
23. 59	19. 0							
Sep. 7		Sep. 7		Sep. 7				
0. 0	22. 18. 5	0. 57:	·1000	1. 0	·01962	1. 40	64 ·0	68 ·0
2. 2	19. 0	3. 1	·1017	3. 6	·01990	3. 40	65 ·3	67 ·3
		3. 37	·1008	6. 6	·01920	9. 40	64 ·0	68 ·8
4. 28	11. 40	3. 54	·1015	6. 14	·01903	21. 40	65 ·0	68 ·0
		4. 8	·1006	6. 27	·01945			
5. 32	10. 25			6. 42	·01930			
6. 3	12. 30	5. 43	·1017	7. 46	·01895			
6. 22	0. 0	6. 15	·1005	8. 0	·01900			
6. 33	13. 5	6. 28	·1060	9. 7	·01846			
7. 4	10. 5	6. 39	·1025	11. 22	·01894			
7. 15	12. 0			15. 0	·01850			
		7. 47	·1005	19. 0	·01914			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 7		Sep. 7		Sep. 7				
h m	° ′ ″	h m		h m		h m	°	°
7.58	22. 6. 0	8. 2	·1017	23. 16	·01924			
	***	8. 10	·1011					
8. 21	12. 0	8. 32	·1034					
	***		***					
9. 40	15. 5	9. 39	·1012					
11. 28	13. 5		***					
11. 57	16. 25	11. 40	·1023					
13. 32	13. 0		***					
14. 0	17. 35	14. 17	·1011					
	***		***					
17. 39	12. 15	18. 28	·1017					
17. 52	14. 0		***					
18. 30	10. 30	19. 11	·1001					
19. 0	12. 0	20. 27	·1007					
	***	22. 22	·0989					
20. 14	9. 35	23. 27	·0996					
	***							
23. 58	18. 30							
Sep. 8		Sep. 8		Sep. 8				
0. 1	22. 20. 5	0. 0	·1000	1. 0	·01870	1. 40	66 ·0	69 ·5
1. 30	22. 30		***	2. 32	·01764	3. 40	67 ·5	71 ·5
3. 30	20. 30	2. 0	·1000	5. 56	·01202	9. 40	69 ·3	71 ·3
	***	2. 43	·1007	7. 20	·01200	21. 40	65 ·0	67 ·5
4. 20	16. 20	3. 28	·1000	7. 27	·01187			
5. 0	15. 5	3. 50:	·0978	7. 46	·01210			
	***	4. 21	·1002	10. 0	·01165			
7. 20	15. 35	5. 48	·1012	11. 0:	·01172			
7. 35	5. 10	7. 22	·1005	21. 11	·01934			
7. 52	11. 20	7. 39	·1036	22. 8	·01900			
	***	8. 36	·1010	23. 17	·01915			
8. 34	12. 0		***					
8. 48	16. 30	12. 28	·1020					
9. 0	13. 0		***					
	***	14. 32	·1008					
10. 17	13. 30	15. 45	·1009					
	***	16. 33	·1021					
11. 9	19. 5	17. 38	·1024					
11. 55:	14. 20	18. 57	·0997					
	***	21. 15	·0997					
12. 27	16. 5	21. 36	·1000					
13. 36	12. 30	22. 32	·0987					
15. 28	18. 5	23. 59	·1010					
16. 22	13. 0							
16. 57	14. 15							
17. 32	12. 30							
17. 53	14. 25							
18. 13	11. 50							
18. 56	11. 20							
19. 7	12. 35							
19. 14	10. 40							
20. 37	14. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 8								
h m	° ′ ″	h m		h m		h m	°	°
20. 50	22. 10. 20							
21. 0	14. 35							
21. 41	14. 5							
	***							
23. 41	23. 0							
Sep. 9		Sep. 9		Sep. 9				
0. 0	22. 22. 55	0. 13	·1013	1. 0	·01850	1. 40	66 ·5	70 ·0
1. 0	20. 45		***	5. 42	·01352	3. 40	68 ·0	71 ·0
1. 33	24. 30	2. 57	·1029	5. 50	·01308	9. 40	69 ·0	72 ·0
2. 13	22. 35	3. 5	·1020	6. 3	·01290	21. 40	66 ·0	69 ·5
	***	3. 24	·1029	6. 7	·01303			
3. 27	27. 0		***	6. 30	·01230			
	***	4. 26	·1002	6. 33	·01240			
4. 3	24. 30	4. 54	·1023	6. 48	·01219			
4. 19	26. 25	5. 11	·1015	7. 7	·01253			
4. 42	21. 0	5. 31	·1039	8. 20	·01285			
	***		***	11. 0	·01198			
5. 16	22. 0	5. 41	·1023	13. 16	·01232			
	***	5. 44	·1036	13. 50:	·01173			
7. 3	14. 5	5. 47	·1007	15. 40	·01340			
	***		***	16. 26:	·01333			
7. 47	13. 5	6. 0	·0997	23. 33	·01753			
	***	6. 7	·1027					
8. 21	0. 20		***					
9. 15	12. 0	6. 17	·1014					
10. 8	14. 0	6. 28	·0976					
10. 55	5. 0	6. 43	·1017					
11. 28	15. 5	6. 54	·1000					
	***	6. 58	·1032					
12. 57	9. 5		***					
13. 27	26. 30	7. 55	·0960					
	***		***					
14. 25	9. 0	8. 24	·1005					
	***		***					
16. 17	25. 20	8. 50	·1004					
16. 32	22. 0		***					
	***	9. 2	·0994					
17. 15	32. 30		***					
	***	9. 33	·1000					
18. 28	20. 30	9. 39	·0989					
	***	10. 9	·1007					
19. 0	24. 0	10. 33	·1000					
19. 28	16. 5	10. 48	·1011					
19. 45	23. 0	11. 6	·0998					
20. 0	20. 20		***					
20. 30	23. 0	13. 37	·1017					
20. 43	20. 45	14. 8	·1007					
	***	15. 23	·1011					
21. 43	22. 55	15. 54	·0992					
22. 28	19. 10	16. 46:	·1022					
23. 1	22. 30	17. 22	·1003					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Sep. 9 h m		h m		h m	°	°
		17. 37	·1013					
		18. 36	·0950					
		18. 51	·0988					
		19. 11	·0974					
		19. 45	·0994					
		21. 1	·0994					
		21. 40	·0961					
		21. 58	·0979					
		22. 12	·0967					
		22. 14	·0975					
		22. 24	·0965					
		22. 46	·0980					
		23. 46	·0982					
Sep. 10		Sep. 10		Sep. 10				
0. 0	22. 22. 0	0. 15	·0995	0. 30	·01743	1. 40	67·5	71·0
	***	1. 14	·0981	5. 22	·01249	3. 40	68·5	71·5
1. 10	23. 30				***	9. 40	69·5	73·5
	***	2. 58	·1014	5. 32	·01252	21. 40	64·5	67·5
2. 27	19. 0	3. 10	·0997	8. 46	·01226			
2. 54	21. 25	3. 24	·1008	9. 1	·01211			
3. 36	20. 10	4. 33	·1000	9. 32	·01193			
4. 31	13. 5		***		·01206			
	***	7. 14	·1010	10. 12:	·01250			
5. 45	15. 30		***	18. 28	·01926			
	***	8. 47	·1004	19. 50	·01897			
7. 45	13. 5	9. 12	·1029	21. 45	·01873			
8. 28	9. 0	9. 39	·1006		·01619			
8. 42	22. 10. 30	9. 58	·1021	22. 54	·01664			
9. 1	21. 58. 0	10. 15	·0995					
9. 17	22. 2. 25	10. 31	·1015					
10. 5	20. 30	11. 30	·1005					
10. 27	11. 30	12. 9	·1000					
10. 35	13. 30	12. 32	·1015					
11. 20	4. 5	13. 16	·0997					
11. 38	10. 30	13. 36	·1006					
11. 50	8. 35		***					
12. 27	9. 25	15. 41	·1005					
13. 3	16. 10		***					
	***	19. 15	·1019					
16. 11	12. 45	20. 28	·0982					
16. 30	15. 0	21. 7	·1000					
17. 2	13. 35	23. 6	·0983					
	***	23. 30	·0966					
20. 9	19. 40	23. 59	·0969					
20. 31	22. 40							
	***							
21. 32	18. 5							
	***							
23. 48	23. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 11		Sep. 11		Sep. 11				
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 22. 35	1. 13	·1009	1. 0:	·01653	1. 40	66·0	68·0
0. 26	25 0	1. 16	·0996		***	3. 40	66·5	68·0
	***	1. 20	·1010	7. 0	·01155	9. 3. 65	·0	68·0
2. 32	16. 45	1. 26	·0992	7. 32	·01165	21. 40	00	63·0
	***	1. 29	·1000	9. 23	·01130			
4. 30	15. 55	1. 35	·0983	10. 9	·01160			
5. 9	6. 0	1. 44	·0998	10. 46:	·01145			
5. 33	22. 6. 0	1. 49	·0985	13. 10:	·01350			
6. 2	21. 58. 40	1. 58	·1026	16. 45	·01841			
	***	1. 59	·0989	18. 42	·01853			
6. 30	22. 7. 0	2. 1	·1005	21. 0	·01813			
	***	2. 8	·0987	21. 50	·01818			
7. 59	11. 10	2. 9	·1012					
	***	2. 14	·0991					
8. 22	8. 30	2. 16	·1013					
	***		***					
8. 58	12. 10	2. 33	·0992					
9. 47	3. 30		***					
10. 20	16. 30	3. 2	·1019					
10. 57	13 15		***					
11. 9	14. 0	3. 12	·1000					
11. 37	4. 0	3. 13	·1021					
11. 49	10. 0	3. 18	·1000					
12. 51	6. 0	3. 22	·1019					
13. 13	17. 30	3. 25	·1000					
	***	3. 30	·1010					
14. 41	11. 0	3. 35	·0991					
	***		***					
18. 0	15. 40	3. 45	·1008					
	***	3. 47	·0993					
20. 30	9. 35		***					
	***	4. 18	·1011					
22. 20	15. 25	4. 27	·0997					
23. 30	21. 0		***					
		5. 11	·0996					
		5. 30	·1014					
		5. 38	·1000					
			***					
		6. 7	·1028					
			***					
		6. 36	·1015					
		6. 45	·1024					
		7. 13	·0999					
		7. 36	·1009					
		8. 6	·0997					
			***					
		8. 43	·1008					
		8. 51	·0999					
		9. 9	·1014					
		9. 25	·0996					
			***					
		10. 10	·1009					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		h m		h m	°	°
		Sep. 11						
		10. 18	·1028					
		11. 17	·0995					
		11. 46	·1020					
			***					
		12. 40	·1002					
			***					
		14. 12	·1020					
			***					
		17. 30	·1007					
		19. 0	·1016					
			***					
		21. 25	·1019					
			***					
		23. 54	·0985					
			***					
Sep. 12		Sep. 12		Sep. 12				
0. 0	22. 21. 25	0. 30	·0986	0. 0	·01445	9. 54	64 ·0	67 ·0
			***					
1. 13	22. 40			4. 0	·01120	21. 40	60 ·5	63 ·5
					***			
3 41	15. 0	3. 25	·1012					
			***	7. 57	·01185			
4. 40	14 55			9. 56	·01130			
5. 20	6. 30	4. 4	·1005	11. 0	·01094			
5. 35	10. 15	4. 43	·1016	19. 50	·01820			
5. 50	7. 30	5. 50	1000	23. 30	·01786			
6. 3	11. 0	6 40	·1017					
6 19	8. 25	7. 14	·1005					
6. 33	12. 5	9. 45	·1010					
6. 44	11. 0	10. 46	1003					
	***	11. 53	·0985					
			***					
7. 25	14. 0							
7. 37	11. 20	15 6	·1013					
8. 0	13. 50	16. 3	·1005					
8. 24	5. 35	16 40	·1003					
8. 43	14. 25	16 49	·1012					
	***	16 53	1002					
10. 6	13 5	17 16	·1013					
	***	17. 22	·1005					
12. 8	12. 50	17. 58	·1036					
	***	18. 8	·1003					
13. 33	16. 5		***					
	***	20. 20	·1010					
14 30	12. 20	20 29	·1020					
15. 2	15. 0	20. 43	·1012					
15. 14	13. 5	21. 23	·1016					
16. 6	18. 0	21. 36	·1003					
17. 0	15. 30	22 43	·1025					
17. 38	18. 0	23. 9	·1010					
	***							
19. 51	13. 0							
19. 59	14. 5							
20. 3	11. 55							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		h m		h m	°	°
Sep. 12								
21. 14	22. 10. 30							
	***							
23. 45	19. 0							
Sep. 13		Sep. 13		Sep. 13				
0. 0	22. 19. 10	0. 0	·1003	1. 0	·01683	1. 40	64 ·5	66 ·5
0. 59	17. 25		***	4. 33	·01107	3. 40	65 ·5	67 ·5
1. 28	20. 10	1. 30	·1018	5. 33	·01126	9. 40	66 ·0	69 ·0
1. 36	17. 35	1. 38	·1007	6. 4	·01150	21. 40	58 ·0	61 ·0
	***	4. 0	·1010	6. 51	·01135			
5. 2	15. 0	4. 16	·1002	10. 0:	·01150			
5. 48	6. 40		***	18. 1	·01833			
6. 53	13. 0	5. 39	·0998	22. 30	·01760			
	***	6. 6	·1017	23. 58	·01789			
8. 31	9. 40	6. 58	·1005					
9. 36	11. 30		***					
10. 31	8. 5	17. 46	·1014					
17. 0	11. 35	22. 25	·1000					
21. 0	9. 45	23. 59	·1008					
23. 59	17. 5							
Sep. 14		Sep. 14		Sep. 14				
0. 27	22. 19. 0	1. 0	·1012	1. 0	·01783	1. 40	59 ·0	63 ·0
5. 44	10. 0	2. 47	·1014	5. 0	{ ·01270	3. 40	62 ·0	64 ·5
6. 51	12. 30	4. 0	·1007		{ ·01350	9. 40	64 ·0	67 ·8
	***	19. 0	·1024	9. 29:	·01079	21. 40	59 ·5	63 ·5
9. 30	12. 0	22. 45:	·1000	20. 43	·01823			
18. 38	11. 45	23. 59	·1000	21. 40	{ ·01810			
21. 0	11. 30				{ ·01750			
	***			23. 16	·01779			
23. 36	16. 25							
Sep. 15		Sep. 15		Sep. 15				
0. 0	22. 18. 5	1. 0	·1005	0. 0	·01763	1. 40	61 ·5	64 ·8
1. 59	19. 25	4. 0	·1015	6. 15	·01450	3. 40	62 ·2	65 ·5
4. 54	14. 0	12. 45	·1026	8. 0:	·01475	9. 40	61 ·5	64 ·8
8. 30	15. 0	19. 17	·1023	14. 7	·01780	21. 40	56 ·2	58 ·5
13. 11	13. 20	23. 25	·0997	17. 33	·01785			
18. 0	13. 35			17. 43	·01765			
20. 40:	11. 30			18. 7	·01796			
23. 59	22. 0			23. 0	·01781			
				23. 33	·01780			
Sep. 16		Sep. 16		Sep. 16				
0. 50	22. 24. 5	0. 36	·1010	1. 0	·01731	1. 40	57 ·0	60 ·0
3. 0	22. 0		***	3. 40	{ ·01282	3. 40	60 ·0	64 ·0
4. 30	15. 55	2. 17	·1013		{ ·01427	9. 40	60 ·0	63 ·0
6. 30	12. 55		***	5. 20	·01171	21. 40	53 ·2	56 ·3
10. 0	12. 30	3. 51	·1020	9 30:	·01114			
10. 48:	5. 40	4. 15	·1010	16. 30	·01749			
11. 42	10. 35		***	19. 30	·01730			
	***	13. 25	·1024					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. increased for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. increased for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 16		Sep. 16		Sep. 16				
h m	° ′ ″	h m		h m		h m	°	°
13. 37	22. 10. 0	13. 31	·1018	22. 13	·01756			
14. 0:	14. 0	14. 20	·1033		·01710			
15. 4:	5. 35	15. 13	·1025	23. 30	·01775			
15. 42:	11. 50	15. 50	·1043					
16. 14	5. 25	17. 36	·1021					
16. 38	6. 15	18. 48	·1040					
17. 7	13. 0	21. 53	·1021					
		23. 12	·1000					
18. 7	17. 20	23. 59	·1003					
18. 29	16. 0							
18. 32	16. 35							
20. 16	11. 35							
21. 0	17. 25							
22. 50	17. 20							
23. 43	23. 0							
Sep. 17		Sep. 17		Sep. 17				
0. 13	22. 22. 25	0. 14	·1014	0. 0	·01762	1. 40	56 ·5	60 ·5
		2. 14	·1008	1. 30	·01683	3. 40	59 ·5	63 ·5
1. 13	21. 40	2. 50	·1000	3. 27	·01244	9. 40	62 ·0	65 ·5
2. 14	25. 30	3. 21	·1011			21. 40	55 ·5	58 ·5
		4. 18	·0987	5. 0	·01380			
3. 1	22. 55	4. 43	·1024					
				9. 58:	·01246			
4. 9	23. 10	4. 55	·1003	12. 2:	·01330			
4. 35	12. 45			16. 52	·01890			
4. 46	20. 10	5. 28	·1018	18. 16	·01869			
5. 6	6. 0			19. 54	·01890			
		6. 22	·0991	23. 0	·01870			
6. 18	19. 55	8. 27	·0985					
7. 26	14. 20	9. 45	·0997					
7. 42	16. 0	10. 5	·0975					
8. 2	11. 15	10. 14	·0986					
		11. 24	·0983					
8. 33	9. 35	11. 53	·1010					
8. 54	11. 30	12. 26	·1000					
9. 37	8. 25	12. 57	·1014					
9. 57	13. 0	13. 7	·1031					
10. 13	3. 40	14. 2	·1003					
		18. 46	·1018					
11. 28	9. 30	22. 48	·1003					
11. 43	0. 10	23. 37	·1009					
11. 58	4. 30							
12. 16	1. 15							
12. 46	22. 6. 0							
13. 5	21. 55. 10							
14. 42	22. 10. 50							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. increased for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. increased for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 17								
h m	° ′ ″	h m		h m		h m	°	°
20. 42	22. 10. 15							
23. 59	16. 0							
Sep. 18		Sep. 18		Sep. 18				
0. 30	22. 17. 0	1. 0	·1000	1. 30	·01782	1. 40	53 ·5	56 ·5
4. 0	16. 50	3. 16	·1010	5. 59	·01250	3. 40	59 ·5	64 ·5
10. 32	14. 0	4. 45	·1031	8. 0	·01310	9. 40	65 ·0	68 ·0
10. 59	9. 0	7. 1	·1042	11. 0	·01236	21. 40	62 ·5	65 ·5
12. 0	11. 55	7. 30	1032	14. 0	·01250			
12. 32	10. 5	10. 38	·1016	18. 0	·01367			
13. 7	12. 5	10. 58	·1033	22. 10	·01473			
13. 35	11. 0							
14. 30	11. 55	12. 45	·1017					
15. 17	21. 10	13. 17	·1022					
		14. 48	·1015					
16. 31	11. 30	15. 11	·1013					
		15. 57	·1026					
18. 39	13. 35							
18. 59	11. 30	19. 47	·1023					
19. 13	12. 35	21. 47	·0984					
		23. 11	·0991					
20. 9	11. 0	23. 44	·0981					
22. 7	19. 0							
23. 30	19. 40							
Sep. 19		Sep. 19		Sep. 19				
0. 0	22. 22. 15	0. 0	·0984	0. 0	·01510	9. 28	62 ·0	65 ·0
0. 30:	23. 55			3. 39	·01500	21. 40	59 ·0	62 ·5
		1. 23	·1007					
1. 7	20. 35	1. 42	·1000	5. 29	·01415			
				6. 53	·01455			
3. 1	29. 30	3. 20	·1020	9. 26	·01321			
3. 30	24. 25			10. 30	·01271			
		4. 23	·1006	11. 31	·01300			
4. 48	25. 25	4. 47	·1017	12. 0:	·01270			
				21. 46	·01926			
6. 0	16. 30	5. 56	·1007	23. 17	·01966			
6. 17	20. 5	6. 24	·1015					
		7. 18	·0998					
7. 0	5. 50							
		9. 13	·1008					
7. 53	16. 0	9. 26	·0993					
		9. 41	·1009					
8. 59	22. 12. 25	10. 49	·0989					
9. 35	21. 54. 35	11. 26	·1018					
10. 9	22. 3. 0	12. 13	·1021					
10. 36	21. 59. 5	13. 36	·0991					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 19		Sep. 19						
h m	° ′ ″	h m		h m		h m	°	°
11. 42	22. 14. 45	14. 18	·1016					
12. 13	9 0	15. 26	·0975					
12. 48:	16. 0	15. 42	·0991					
			***					
13. 8	12. 40							
13. 50	22. 5	17. 2	·0981					
	***	17. 20	·1004					
14. 48	14. 5	17. 30	·1002					
	***	17. 46	·1014					
15. 7	17. 0	18. 25	·1004					
	***	18. 47	·0978					
15. 40	10. 30	19. 13	·1007					
15. 52	11. 40	19. 36	·0982					
16. 1	10. 45	20. 20	·1004					
	***	20. 45	·1004					
16. 44	20. 10	21. 17	·0991					
	***	23. 12	·0991					
16. 58	17. 0	23. 42	·0980					
	***							
17. 39	15. 50							
17. 52	19. 0							
18. 7	17. 0							
	***							
19. 33	22. 0							
20. 1	28. 30							
	***							
20. 33	23. 5							
	***							
21. 46	20. 55							
23. 7	24. 0							
23. 59	22. 55							
Sep. 20		Sep. 20		Sep. 20				
0. 20	22. 23. 25	0. 27	·0980	1. 0	·01875	1. 40	62 ·5	65 ·5
2. 30	25. 0	0. 57	·0971	1. 32	·01840	3. 40	64 ·5	67 ·5
	(†)	1. 47	·0986	5. 33	·01315	9. 40	61 ·0	64 ·0
3. 40	18. 32*		***	6. 55	·01331	21. 40	51 ·0	55 ·0
	(†)	3. 17	·0973	7. 10	·01310			
9. 40	1. 23:	3. 22	·0994	9. 39	·01262			
	(†)		***	10. 0	·01210			
21. 40	10. 55*	3. 45	·0979	11. 22	·01370			
	(†)		***	11. 41:	·01355			
		3. 51	·0995	15. 35	·01789			
		3. 58	·0978	17. 30	·01860			
		4. 38	·1011	19. 14	·01900			
		5. 10	·0994	21. 53	·01855			
		6. 12	·1011	23. 42	·01860			
		6. 31	·0999	23. 52	·01775			
		6. 43	·1000					
		6. 57	·1025					
		7. 12	·1000					
		7. 26	·0993					
		7. 54	·1010					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 21		Sep. 21		Sep. 21				
h m	° ′ ″	h m		h m		h m	°	°
0. 16	22. 20. 0	0. 32	·0994	1. 0	·01781	1. 40	57 ·0	60 ·0
0. 42	22. 5		***	5. 3	·01330	3. 40	59 ·0	62 ·0
	***	1. 56	·1009	5. 20	·01352	9. 40	58 ·0	61 ·0
1. 47	18. 5		***	5. 59	·01239	21. 40	51 ·5	54 ·5
	***	2. 48	·1005	6. 7	·01246			
2. 59	22. 0		***	6. 29	·01212			
3. 15	17. 0	3. 2	·1015	9. 0	·01140			
	***	3. 11	·1004	9. 52	·01139			
3. 59	16. 45	3. 38	·1026	10. 28	·01170			
	***	4. 12	·1005	11. 10	·01161			
4. 47	22. 21. 25	4. 24	·1018	12. 0	·01191			
	***	4. 42	·1000	13. 17	·01251			
5. 20	21. 58. 30	4. 51	·1012	14. 2:	·01230			
	***	5. 14	·0995	17. 8	·01692			
5. 40	22. 9. 5	5. 29	·1047	17. 15	·01672			
	***	6. 4	·0991	18. 0	·01696			
5. 49	7. 35	6. 17	·1022	18. 50	·01665			
6. 1	12. 5		***					
6. 8	3. 10	6. 45	·1000	22. 0	·01810			
6. 38	14. 0	7. 8	·1009	22. 22	·01739			
7. 5	10. 15	7. 27	·0997	23. 30	·01751			
7. 18	11. 50	7. 39	·1018					
7. 32	5. 20	7. 49	·1011					
7. 42	11. 5	8. 25	·1040					
	***	8. 54	·1018					
8. 17	6. 0		***					
	***	10. 0	·1013					
8. 52	14. 0		***					
9. 0	12. 5	10. 20	·1024					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 21		Sep. 21						
h m	° ′ ″	h m		h m		h m	°	°
9. 36	22. 12. 15	10. 45	·1003					
10. 1	4. 0	11. 54	·1010					
10. 32	12. 50	12. 13	·0986					
11. 22	1. 5	12. 37	·1007					
12. 1	8. 40	13. 2	·1002					
12. 28	1. 0	13. 25	·1032					
12. 54	4. 20	14. 18	·0989					
13. 5	2. 30	14. 45	·1015					
13. 21	12. 5		***					
	***	16. 47	·1043					
14. 20	23. 30	17. 41	·0999					
	***	18. 28	·1000					
15. 28	11. 0	19. 31	·1011					
15. 50	11. 20		***					
16. 10:	8. 35	21. 38	·0979					
	***		***					
18. 22	33. 0	22. 12	·0996					
18. 42	30. 45		***					
18. 52	31. 30	23. 10	·0987					
	***		***					
19. 58	19. 30	23. 45	·0990					
20. 8	23. 0							
20. 18	20. 0							
20. 26	21. 0							
20. 30	17. 5							
20. 39	19. 55							
20. 51	17. 35							
20. 52	21. 10							
21. 0	18. 30							
21. 2	23. 0							
21. 8	18. 35							
	***							
21. 30	22. 30							
21. 41	21. 0							
21. 58	23. 20							
	***							
23. 9	18. 30							
	***							
23. 59	20. 0							
Sep. 22		Sep. 22		Sep. 22				
0. 21	22. 19. 30	0. 17	·0980	0. 30	·01642	1. 40	58 ·5	61 ·5
	***	0. 42	·0990	1. 45	·01290	3. 40	60 ·5	64 ·0
2. 25	19. 5		***	5. 28	·01362	9. 40	62 ·5	65 ·5
3. 27	15. 50	2. 11	·0974	9. 21	·01295	21. 40	59 ·0	62 ·5
	***		***	9. 40	·01260			
3. 58	16. 55	2. 25	·0982		***			
	***		***	10. 0	·01225			
5. 18	9. 15	2. 46	·0973	10. 13	·01240			
	***		***	10. 43	·01228			
6. 58	12. 0	3. 56	·0993	11. 0	·01245			
	***		***	11. 45	·01231			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 22		Sep. 22		Sep. 22				
h m	° ′ ″	h m		h m		h m	°	°
7. 41	22. 10. 0	4. 20	0.983	12. 13	·01270			
	***		***	12. 50:	·01280			
8. 48	10. 40	6. 36	·1004	21. 52	·01350			
9. 10	4. 30	7. 1	·0996					
	***	8. 50	·1004					
9. 42	24. 15	9. 20	·1034					
10. 7	7. 5	9. 55	·0989					
10. 32	13. 0	10. 10	·1021					
10. 48	7. 15	10. 30	·1015					
	***	10. 44	·0997					
11. 31	15. 30	11. 11	·1014					
11. 58	5. 10	11. 40	·0991					
12. 21	14. 0	12. 3	·1013					
12. 49	6. 30	12. 48	·1000					
13. 15	9. 40	13. 25	·1009					
13. 32	2. 10	13. 37	·1022					
	***	14. 24	·0993					
15. 11	12. 20		***					
15. 44	6. 40	15. 12	·1009					
	***	15. 50	·1000					
17. 35	22. 25	16. 48	·1012					
17. 48	21. 30	17. 7	·1008					
	***	18. 10	·1013					
18. 30	30. 20	18. 22	·1005					
	***	19. 0	·1022					
19. 35	13. 10		***					
20. 1	14. 25	19. 25	·1013					
20. 37	11. 10		***					
21. 12	14. 45	19. 58	·1022					
	***	22. 35	·0990					
22. 38	13. 10	23. 20	·1000					
23. 59	17. 0							
Sep. 23		Sep. 23		Sep. 23				
0. 0	22. 16. 5	0. 12	·0982	0. 2	·01330	1. 40	61 ·0	65 ·0
	***		***	2. 42	·01345	3. 40	63 ·0	66 ·0
0. 24	18. 5	0. 53	·0985	4. 3	·01298	9. 40	62 ·0	65 ·0
	***		***	6. 30	·01330	21. 40	57 ·5	60 ·5
0. 38	16. 5	1. 28	·1006	6. 39	·01319			
	***		***	6. 49	·01340			
2. 29	19. 25	2. 32	·0991	7. 57:	·01280			
	***	2. 50	·1007	19. 0	·01960			
2. 58	16. 30	4. 1	·0994	22. 15	·01945			
	***	4. 27	·1013	23. 28	·01979			
4. 22	13. 55		***					
	***	4. 43	·1002					
4. 48	15. 5		***					
	***	5. 28	·1007					
5. 12	11. 30		***					
	***	6. 43	·1000					
6. 12	22. 13. 15	6. 53	·1040					
6. 48	21. 57. 0		***					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 23		Sep. 23						
h m	° ′ ″	h m		h m		h m	°	°
7. 39	22. 14. 0	7. 30	·1034					
	***	7. 57	·1010					
8. 43	11. 5	8. 54	·1015					
9. 7	7. 0	9. 48	·1006					
9. 55	8. 10	10. 7	·1012					
10. 14	14. 55	11. 8	·0988					
10. 31	10. 35	11. 57	·1010					
11. 3	13. 50	12. 46	·1025					
11. 30	11. 50	13. 35	·1013					
12. 2	16. 0		***					
12. 39	11. 0	15. 10	·1010					
13. 23	22. 0	16. 0	·1006					
	***		***					
14. 25	11. 30	18. 10	·1032					
14. 58:	9. 50		***					
	***	19. 15	·1013					
15. 48:	18. 20		***					
	***	23. 0	·1014					
16. 18	15. 25	23. 14	·1007					
	***	23. 59	·1012					
17. 57	19. 30							
	***							
19. 3	15. 5							
19. 39	16. 0							
19. 45	17. 35							
20. 0	15. 0							
20. 30	16. 15							
21. 17	11. 30							
	***							
23. 59	20. 5							
Sep. 24		Sep. 24		Sep. 24				
0. 39	22. 21. 30	0. 32	·1027	1. 0	·01893	1. 40	60 ·5	63 ·0
	***	1. 13	·1025	3. 25	·01372	3. 40	62 ·5	65 ·5
1. 12	22. 40	1. 35	·0989	9. 14	·01347	9. 40	66 ·0	69 ·5
	***	1. 58	·1011		***	21. 40	58 ·8	61 ·5
2. 11	17. 35	2. 8	·1005	11. 16	·01348			
3. 0	20. 0	2. 27	·1016	16. 10	·01964			
	***		***	18. 15	·01961			
6. 5	11. 0	4. 47	·1020	19. 46	·01999			
	***		***	20. 28	·02000			
8. 10	11. 0	5. 12	·1010		***			
8. 40	12. 25		***	22. 1	·01973			
	***	5. 32	·1017		***			
10. 15	5. 55		***	23. 31	·01993			
	***	5. 55	·1010					
10. 53	13. 45	6. 27	·1020					
11. 9	13. 0		***					
11. 31	3. 0	9. 25	·1023					
11. 46	9. 20	9. 52	·1020					
11. 52	8. 5	10. 28	·1057					
12. 40	13. 30	10. 45	·1057					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 24		Sep. 24						
h m	° ′ ″	h m		h m		h m	°	°
13. 37	22. 8. 0	11. 27	·1017					
14. 59	15. 0	11. 39	·1023					
15. 12	13. 5	11. 47	·1007					
15. 32	15. 0	12. 18	·1033					
16. 0	11. 40	13. 12	·1024					
16. 46	12. 30		***					
17. 2	14. 25	14. 17	·1018					
	***		***					
17. 23	13. 20	15. 33	·1030					
	***		***					
18. 46	16. 35	17. 39	·1035					
	***	18. 12	·1023					
20. 49	12. 15		***					
	***	19. 9	·1033					
23. 59	20. 0		***					
		22. 1	·1015					
			***					
		23. 20	·1019					
			***					
Sep. 25		Sep. 25		Sep. 25				
0. 17	22. 20. 50	0. 15	·1010	1. 0	·01883	1. 40	62 ·5	64 ·0
1. 50	20. 40	0. 32	·1001	1. 59	·01685	3. 40	66 ·0	69 ·0
2. 42	15. 30	0. 58	·1008	2. 10	·01403	9. 40	67 ·0	69 ·0
4. 57	14. 30		***	5. 0	·01444	21. 40	58 ·5	61 ·0
6. 20	11. 0	2. 10	·0994	8. 3	·01390			
9. 35	11. 30		***	9. 35	·01390			
10. 0	9. 15	3. 20	·1011	15. 29	·02020			
	***		***	18. 30	·01996			
11. 0	11. 50	5. 51	·1002	22. 15	·01958			
	***		***		(†)			
12. 14	9. 35	6. 10	·1013					
	***	7. 22	·1009					
12. 56	15. 50	8. 12	·1012					
13. 33	10. 35	9. 15	·1030					
	***	9. 46	·1018					
16. 0	10. 0	11. 16	·1027					
	***	11. 57	·1017					
17. 5	14. 30	12. 15	·1028					
17. 33	12. 25	12. 32	·1017					
18. 12	12. 5	13. 0	·1028					
18. 37	13. 30	14. 12	·1020					
19. 47	12. 55	14. 21	·1026					
20. 12	7. 10	16. 0	·1024					
	***	16. 45	·1016					
21. 0	8. 25	17. 31	·1030					
	***	21. 10	·1017					
22. 15	13. 25	23. 59	·1015					
Sep. 26		Sep. 26		Sep. 26				
0. 0	22. 16. 50	0. 13	·1023	2. 10	·01972*	2. 10	59 ·5	62 ·0
2. 19	19. 0	3. 16	·1029			4. 35	62 ·0	63 ·0
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
Sep. 26		Sep. 26		Sep. 26				
h m	° ′ ″	d		h m		h m		
6. 32	22. 13. 35	5. 28	·1016	4. 35	·01820*	8. 39	62 ·5	65 ·5
6. 57	12. 0			8. 39	·01565*	21. 40	58 ·5	61 ·5
13. 14	13. 0	13. 8	·1038	21. 40	·01916			
13. 42	11. 0	13. 13	·1029					
14. 30	12. 20	17. 11	·1034					
19. 0	12. 0	20. 18	·1026					
20. 41	10. 35	20. 30	·1021					
21. 49	11. 25	22. 1	·1015					
23. 59	18. 10	23. 59	·1016					
Sep. 27		Sep. 27		Sep. 27				
0. 11	22. 19. 30	0. 30	·1013	1. 0	·01922	1. 40	60 ·5	62 ·8
6. 0	14. 55	2. 55	·1020	6. 26	·01291	3. 40	61 ·5	64 ·5
6. 31	13. 30	6. 0	·1018	12. 0:	·01275	9. 40	63 ·5	66 ·5
	***	7. 30	·1025	23. 58	·01764	21. 40	61 ·0	64 ·0
11. 26	13. 0	18. 13	·1037					
11. 44:	11. 50	21. 16	·1024					
12. 11	14. 30	23. 30	·1020					
	***							
15. 13	12. 50							
18. 0	13. 30							
	***							
21. 0:	11. 45							
23. 35	18. 30							
Sep. 28		Sep. 28		Sep. 28				
0. 0	22. 18. 45	0. 0	·1022	1. 0	·01798	1. 40	61 ·0	64 ·0
1. 54	19. 55	3. 34	·1029	3. 30:	·01755	3. 40	63 ·0	65 ·0
4. 28	14. 50	4. 21	·1021	9. 0:	·01390	9. 40	63 ·0	65 ·0
9. 29	14. 20	10. 12	·1033	17. 32	·01960	21. 40	58 ·5	61 ·5
11. 0	11. 35	10. 30	·1027	20. 14	·01925			
11. 19	15. 30	11. 13	·1029	22. 6	·01943			
12. 12:	7. 5	11. 28:	·1034	23. 30	·01909			
14. 0	12. 20	12. 25	·1034					
18. 0	14. 0	19. 7	·1041					
20. 38	12. 0	23. 0	·1013					
	***	23. 33	·1017					
23. 59	20. 5							
	(†)							
Sep. 29		Sep. 29		Sep. 29				
1. 40	22. 18. 44*	1. 40	·1030*	1. 40	·01629*	1. 40	61 ·5	64 ·5
3. 40	17. 35*	3. 40	·1038*	3. 40	·01349*	3. 40	62 ·5	65 ·5
9. 40	14. 51*	9. 40	·1049*	9. 40	·01245*	9. 40	61 ·0	64 ·0
21. 40	13. 33*	21. 40	·0997*	21. 40	·01880*	21. 40	56 ·5	59 ·0
Sep. 30		Sep. 30		Sep. 30				
0. 5	22. 19. 20	0 12	·1011	1. 0	·01816	1 ·40	58 ·5	61 ·5
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
Sep. 30		Sep. 30		Sep. 30				
h m	° ′ ″	d		h m		h m		
0. 18	22. 19. 25	0. 29	·1009	3. 36	·01270	3. 40	59 ·5	62 ·5
	***		***	4. 53	·01285	9. 40	59 ·5	62 ·5
0. 50	26. 40	0. 46	·1020	5. 19	·01265	21. 40	54 ·5	57 ·5
	***	1. 3	·1001	5. 30	·01276			
1. 0	24. 0	1. 7	·1009	8. 0	·01210			
1. 12	29. 0	1. 24	·1000	16. 16	·01[illegible]			
	***		***	19. 58	·01840			
1. 40	24. 15	1. 45	·1009	20. 2	·01823			
1. 44	26. 50		***	23. 30	·01830			
2. 0	18. 35	2. 0	·0993					
2. 16	21. 0		***					
	***	2. 30	·1002					
2. 39	18. 10	2. 33	·0996					
	***	2. 47	·1006					
2. 49	20. 20		***					
	***	3. 10	·0994					
3. 33	16. 25		***					
4. 12	16. 5	4. 40	·1009					
4. 48	18. 0		***					
5. 10	14. 30	5. 17	·0992					
5. 18	15. 0	5. 39	·1013					
5. 40	12. 0		***					
	***	11. 45	·1033					
6. 14	11. 35	12. 15	·1022					
	***	12. 45	·1031					
6. 31	13. 20		***					
	***	15. 7	·1012					
7. 3	10. 0		***					
	***	15. 38	·1025					
7. 22	11. 25		***					
	***	16. 43	·1019					
7. 59	8. 5	17. 45	·1036					
	***		***					
8. 22	13. 40	19. 58	·1030					
	***	20. 50:	·1003					
9. 3	9. 0	21. 27	·1013					
	***	22. 57	·1010					
9. 22	11. 5	23. 5	·1006					
	***							
11. 29	5. 5							
	***							
12. 50	14. 50							
	***							
13. 9	11. 45							
13. 30	16. 15							
14. 27	12. 30							
14. 58	21. 20							
15. 26	16. 0							
16. 9	12. 30							
16. 37	16. 5							
17. 12	15. 0							
17. 23	10. 15							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

September 29. The Photographic Registers were illegible.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 30								
h m	° ′ ″	h m		h m		h m	°	°
18. 24	22. 12. 20							
18. 34	11. 0							
19. 16	13. 10							
20. 0	11. 15							
21. 34	12. 0							
	***							
23. 1	19. 20							
23. 14	17. 30							
Oct. 1		Oct. 1		Oct. 1				
0. 0	22. 18. 30	0. 0	·1005	1. 0	·01738	1. 40	56 ·5	59 ·5
	***	1. 42	·1011	4. 32	·01250	3. 40	58 ·0	61 ·0
1. 46	20. 25	1. 57:	·1020	5. 2	·01265	9. 40	59 ·5	62 ·5
1. 58	23. 25	2. 35	·0998	10. 30	·01201	21. 40	56 ·0	59 ·0
	***	3. 45:	·1019	13. 0	·01220			
3. 4	14. 50	4. 40:	·1006	23. 18	·01725			
	***	5. 12:	·1021					
4. 16	18. 0	5. 27	·1018					
	***		***					
5. 0	11. 35	9. 7	·1036					
6. 20	13. 0	9. 47	·1021					
8. 7	11. 35	12. 6	·1043					
8. 30	4. 10	13. 0	·1026					
8. 41	8. 35		***					
9. 0	5. 5	14. 54	·1032					
	***	15. 8	·1024					
10. 29	11. 0	16. 14	·1023					
	***	17. 9	·1037					
11. 2	10. 5		***					
	***	18. 58	·1019					
12. 0	13. 20	20. 12	·1024					
12. 27	10. 20	23. 36	·1000					
12. 58	10. 0							
13. 19:	17. 0							
13. 53	11. 20							
14. 18	13. 20							
14. 31	11. 30							
14. 53	11. 50							
15. 7	16. 25							
15. 35	14. 10							
	***							
17. 1	21. 40							
17. 32	14. 0							
17. 52	11. 20							
18. 29	13. 25							
	***							
20. 0	9. 30							
	***							
21. 59	9. 35							
	***							
23. 59	16. 55							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 2		Oct. 2		Oct. 2				
h m	° ′ ″	h m		h m		h m	°	°
0. 45	22. 20. 0	0. 5	·0996	1. 30	·01570	2. 25	59 ·5	62 ·5
1. 35	24. 0	0. 32	·1000	1. 40	·01544	3. 40	60 ·0	63 ·0
2. 56	22. 0		***	1. 48	·01503	9. 35	57 ·0	58 ·5
	***	1. 36	·1014	3. 9	·01240	21. 40	52 ·0	53 ·5
3. 42	16. 30	3. 36	·1000	4. 10	·01250			
	***	4. 15:	·1017	5. 8	·01220			
4. 51	16. 20	5. 5	·1010	5. 28	·01235			
5. 12	7. 0	5. 23	·1035	6. 15	·01202			
5. 42	11. 5	6. 9	·1016	12. 42	·01677			
	***	9. 2	·1024	15. 34	·01640			
7. 0	12. 5	9. 20	·1020	16. 26	·01588			
9. 34	11. 30	10. 26:	·1038	18. 0	·01591			
9. 52	9. 30	10. 38	·1030	21. 58	·01640			
	***	11. 57	·1028					
10. 43	11. 25	15. 48	·1040					
	***	17. 0	·1050					
14. 0	11. 5	18. 18	·1030					
14. 10	11. 0	19. 20	·1035					
15. 8	10. 30	22. 15	·1019					
15. 38	18. 10		***					
16. 16	11. 0	23. 8	·1005					
17. 1	14. 0							
	***							
20. 11	9. 0							
	***							
22. 2	15. 0							
	***							
23. 37	18. 0							
	***							
Oct. 3		Oct. 3		Oct. 3				
0. 0	22. 18. 0	0. 0	·1013	9. 40	·01165*	9. 40	58 ·5	61 ·5
	***	1. 0	·1015	21. 40	·01699*	21. 40	51 ·5	54 ·5
1. 42	19. 5		***					
	***	3. 25	·1028					
1. 55	21. 0		***					
	***	5. 2	·1018					
2. 3	19. 30	5. 15	·1030					
	***	6. 0	·1023					
2. 29	21. 10	6. 8	·1028					
	***	6. 36	·1014					
2. 42	19. 0	8. 30	·1018					
3. 15	17. 50	8. 56:	·1050					
3. 23	20. 0		***					
4. 24	16. 30	9. 36	·1015					
	***	10. 0	·1025					
5. 7	10. 0		***					
5. 30	13. 0	11. 0	·1012					
7. 21	12. 5	11. 34	·1040					
7. 45	10. 20	11. 54:	·1035					
8. 20	13. 25	12. 13	·1050					
8. 49	7. 0		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 3		Oct. 3						
h m	° ′ ″	h m		h m		h m	°	°
9. 2	22. 13. 10	13. 24	·1021					
9. 11	11. 25	16. 19	·1029					
9. 31	12. 35	16. 40:	·1020					
9. 50	7. 45	18. 0	·1036					
10. 3	10. 0	18. 27	·1025					
10. 17	8. 20	20. 8	·1026					
10. 51	11. 35		***					
11. 28	2. 25	22. 26	·0979					
11. 43	22. 4. 25		***					
12. 7	21. 59. 0	23. 24	·0996					
12. 17	22. 5. 40	23. 42	·0992					
12. 27	3. 30		***					
13. 0	11. 0		***					
14. 8	6. 0							
14. 57	8. 5							
15. 11	11. 0							
15. 58	13. 0							
16. 11	11. 0		***					
17. 22	16. 0							
17. 30	13. 50							
17. 53	12. 35							
18. 30	15. 55							
18. 50	14. 35							
19. 1	16. 30							
19. 9	14. 50							
19. 16	15. 25							
19. 41	13. 0		***					
20. 52	16. 5							
21. 0	13. 30		***					
21. 57	13. 35		***					
23. 29	21. 30							
23. 45	16. 45							
Oct. 4		Oct. 4		Oct. 4				
0. 0	22. 15. 0	0. 0	·1019	1. 30	·01730	1. 40	53 ·5	56 ·5
0. 18	18. 35	0. 38	·1014	9. 0	·01234	3. 40	56 ·5	59 ·5
0. 30	17. 0	6. 33	·1034	13. 0	·01213	9. 40	57 ·5	60 ·5
	***	7. 27	·1031	14. 2:	·01157	21. 40	56 ·0	58 ·8
2. 9	19. 30	7. 42	·1041	19. 46	·01383			
	***	7. 57	·1035	22. 49	·01412			
5. 0	15. 0	11. 30	·1034	23. 30	·01380			
6. 40	13. 55	12. 56	·1029					
6. 59	11. 5	13. 20:	·1040					
7. 9	11. 40	14. 4	·1040					
7. 25	7. 55	14. 37	·1021					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 4		Oct. 4						
h m	° ′ ″	h m		h m		h m	°	°
7. 42	22. 11. 20	15. 55	·1023					
7. 56	10. 30		***					
9. 0	14. 5	17. 20	·1025					
	***	17. 40	·1036					
12. 29	12. 5	18. 15	·1026					
12. 56	20. 30		***					
13. 24	14. 50	20. 8	·1033					
13. 33	15. 55	21. 10	·1018					
14. 4	10. 5		***					
14. 41	13. 30	23. 27	·1017					
14. 58	12. 35							
15. 45	16. 40							
15. 54	15. 0		***					
17. 4	15. 0							
17. 16	16. 0		***					
17. 32	13. 15		***					
18. 15	16. 0		***					
21. 11	11. 35		***					
22. 38	13. 0							
23. 40	17. 5							
Oct. 5		Oct. 5		Oct. 5				
1. 40	22. 24. 16*	1. 40	·1003*	1. 40	·01254*	1. 40	58 ·5	61 ·5
3. 40	18. 50*	3. 40	·1010*	3. 40	·01294*	3. 40	60 ·0	63 ·0
9. 40	13. 4*	9. 40	·1025*	9. 40	·01276*	9. 40	59 ·0	61 ·0
21. 40	10. 27*	21. 40	·1018*	21. 40	·01807*	21. 40	53 ·5	56 ·0
Oct. 6		Oct. 6		Oct. 6				
0. 1	22. 15. 25	0. 0	·1019	1. 0	·01770	1. 40	54 ·5	57 ·5
1. 0	18. 0		***	2. 30	·01713	3. 40	55 ·5	58 ·5
	***	1. 27	·1019		***	9. 40	55 ·5	58 ·5
1. 18	21. 10	1. 44	·1007	8. 30	·01383	21. 40	50 ·0	52 ·8
1. 33	18. 0		***	10. 10	·01410			
	***	4. 30:	·1024	10. 18:	·01403			
3. 8	18. 40	5. 25	·1003	15. 4	·01725			
3. 15	19. 30	5. 35	·1013	16. 56	·01695			
3. 26	17. 40	5. 55	·1005	20. 0	·01774			
	***	7. 0	·1030	23. 0	·01768			
3. 54	16. 5	8. 42	·1032					
	***	9. 57	·1038					
4. 53	16. 0	10 15:	·1056					
5. 26	6. 20	10. 38	·1044					
	***	11. 0	·1052					
5. 54	6. 0		***					
	***	12. 0	·1032					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Oct. 5. The Photographic Registers were lost, owing to errors in the bringing out of the impressions.

Göttingen Mean Solar Time.	Western Declination.
Oct. 6 h m	° ′ ″
7. 14	22. 15. 0
	***
10. 0	13. 20
	***
10. 26	8. 50
10. 50	6. 35
11. 38	8. 55
11. 51	5. 25
	***
12. 44	11. 0
13. 12	10. 25
13. 33	13. 5
13. 57	10 30
14. 16	13. 35
	***
15. 28	12. 30
16. 30	17. 0
	***
16. 55	15. 0
17. 20	13. 0
	***
18. 32	14. 0
	***
20. 34	11. 25
	***
22. 6	12. 35
	***
23. 59	20. 0
Oct. 7	
0. 0	22. 20. 5
	***
3. 11	20. 50
4. 30	12. 20
4. 40	12. 35
4. 52	10. 0
5. 9	10. 25
	***
5. 39	22. 13. 0
6. 7	21. 58. 45
	***
6. 33	22. 9. 25
6. 43	8. 5
6. 58	11. 5
7. 31	11. 55
8. 0	5. 10
8. 20	4. 15
9. 0	11. 15
10. 27	14. 0
10. 42	12. 0
10. 59	13. 25
11. 32	11. 15

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 6 h m	
13. 44	·1025
14. 5	·1035
14. 27	·1031
15. 30	·1038
17. 55	·1036
18. 30	·1043
	***
23. 23	·1009
23. 59	·1012
Oct. 7	
0. 4	·1010
0. 8	·1017
	***
0. 57	·1015
	***
1. 18	·1003
	***
3. 3	·1024
	***
3. 35	·1020
	***
3. 50	·1008
	***
4. 8	·1017
	***
4. 45	·1013
	***
5. 12	·1027
	***
5. 29	·1020
	***
5. 38	·1023
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Oct. 7	
1. 0	·01641
	***
3. 33	·01242
	***
5. 0	·01285
	***
5. 58	·01263
6. 9	·01282
10. 33:	·01221
19. 0	·01780
23. 30	·01710

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	52 ·6	55 ·5
3. 40	54 ·0	57 ·0
9. 40	54 ·0	57 ·0
21. 40	49 ·5	51 ·7

Göttingen Mean Solar Time.	Western Declination.
Oct. 7 h m	° ′ ″
11. 50	22. 14. 20
12. 43	10. 20
12. 57	12. 0
13. 58	10. 30
14. 17	16. 35
	***
16. 11	12. 0
	***
21. 10	11. 40
	***
22. 32	14. 0
23. 25	20. 10
	***
23. 59	19. 0
Oct. 8	
0. 10	22. 18 25
1. 0	21. 0
	***
2. 54	18. 50
3. 15	20. 10
	***
4. 43	14. 30
5. 27	7. 0
5. 39	10. 25
5. 58:	7. 10
6. 35	12. 30
7. 37	12. 0
8. 0	10. 15
8. 22	12. 5

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 7 h m	
5. 55	·1009
6. 8	·1045
	***
6. 20	·1047
6. 38	·1032
	***
7. 48:	·1022
8. 26	·1049
8. 38	·1038
9. 7	·1028
9. 50	·1033
	***
10. 18	·1047
10. 36	·1036
	***
11. 28	·1032
11. 42	·1045
	***
14. 27	·1027
	***
15. 18	·1042
16. 18	·1036
	***
19. 20	·1038
20. 0	·1028
	***
20. 45	·1031
	***
22. 0	·1015
	***
23. 6	·1017
	***
23. 32	·0994
	***
23. 48	·1006
23. 51	·0999
Oct. 8	
0. 18	·1014
0. 51	·1023
	***
3. 3	·1028
3. 28	·1014
	***
4. 24	·1009
5. 8	·1027
5. 15	·1020
5. 30:	·1028
5. 42	·1021
6. 14	·1031
6. 37	·1023
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Oct. 8	
1. 0	·01739
3. 9	·01628
6. 30	·01255
9. 0:	·01200
16. 14	·01700
19. 30	·01740
23. 30	·01763

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	51 ·5	53 ·7
3. 40	52 ·5	54 ·5
9. 40	53 ·0	56 ·0
21. 40	46 ·5	49 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
Oct. 8	
h m	° ′ ″
8. 30	22. 11. 10
8. 39	11. 50
8. 54	8. 5
9. 52	12. 0
10. 9	11. 0
10. 32:	12. 50
	***
11. 42	9. 40
12. 1	18. 0
	***
14. 1	11. 20
14. 52	13. 15
	***
18. 0	12. 25
18. 19	13. 0
18. 30	11. 0
	***
20. 52	9. 0
21. 29	11. 50
21. 44	10. 35
	***
23. 41	19. 20
Oct. 9	
0. 0	22. 21. 0
	***
5. 42	10. 50
6. 30	12. 15
8. 23	11. 40
	***
8. 49	9. 10
9. 0	10. 50
9. 40	9. 0
	***
12. 3	11. 50
	***
17. 7	11. 0
17. 32	12. 0
	***
20. 40	8. 30
	***
22. 20	11. 40
Oct. 10	
0. 0	22. 18. 0
	***
1. 52	21. 0
	***
7. 22	11. 30
8. 26	12. 15
8. 34	10. 25
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 8	
h m	
8. 33	·1031
8. 55	·1042
9. 56	·1031
10. 19:	·1045
	***
11. 40	·1033
11. 56	·1044
	***
12. 37	·1034
	***
14. 24	·1030
18. 10	·1040
	***
20. 27	·1028
	***
23. 40	·1018
Oct. 9	
0. 0	·1020
	***
8. 36	·1032
8. 54:	·1045
9. 9	·1035
10. 18	·1030
11. 50	·1035
18. 45	·1041
21. 30	·1022
22. 25	·1020
23. 26	·1020
23. 59	·1024
	***
Oct. 10	
1. 56	·1035
	***
3. 48	·1029
	***
4. 4	·1036
	***
4. 25	·1034
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Oct. 9	
1. 0	·01732
2. 13	·01590
3. 23	·01320
6. 0	·01767
8. 0	·01790
22. 8	·01785
Oct. 10	
1. 0	·01720
5. 26	·01286
7. 30	·01326
10. 30	·01301
15. 0	·01306
19. 30	·01434
23. 0	·01490

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Oct. 9		
1. 40	49 ·7	52 ·5
3. 40	52 ·5	54 ·0
9. 40	53 ·0	54 ·5
22. 8	49 ·0	51 ·5
Oct. 10		
5. 32	53 ·0	55 ·0
9. 54	54 ·5	55 ·8
21. 40	52 ·5	54 ·8

Göttingen Mean Solar Time.	Western Declination.
Oct. 10	
h m	° ′ ″
9. 58	22. 13. 0
	***
10. 40	8. 20
	***
12. 50	13. 0
13 2	18. 0
13. 46	13. 35
18. 17	12. 30
19. 7	12. 50
19. 30	11. 25
	***
21. 0	10. 0
	***
23. 38	19. 0
Oct. 11	
0. 0	22. 20. 0
0. 32	21. 0
2. 28	20. 30
3. 34	18. 0
	***
4. 29	12. 0
5. 12	13. 50
6. 2	11. 50
7. 32	11. 20
8. 1	9. 0
8. 32	11. 30
	***
11. 15	12. 0
	***
12. 21	6. 40
14. 0	13. 0
16. 2	12. 0
17. 30	12. 45
	***
20. 10	12. 35
	***
20. 50	9. 30
20. 59	11. 55
	***
22. 20	14. 0
	***
23. 7	21. 45
23. 32	21. 25
Oct. 12	
0. 0	22. 21. 30
	***
2. 44	20. 0
	***
6. 51	11. 40
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 10	
h m	
8. 30	·1033
10. 45	·1040
12. 38	·1033
13. 5:	·1041
14. 15	·1034
18. 40	·1037
22. 35	·1016
23. 37	·1018
Oct. 11	
0. 0	·1018
3. 12	·1023
3. 45	·1010
	***
5. 8	·1008
6. 0	·1020
	***
7. 30	·1020
7. 50:	·1009
9. 32	·1025
10. 23	·1026
11. 49	·1039
	***
12. 56	·1028
18. 36	·1044
	***
20. 53	·1037
21. 20	·1028
22. 13	·1024
23. 30	·1017
Oct. 12	
0. 0	·1018
	***
1. 45	·1018
	***
3. 3	·1004
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Oct. 11	
3. 40	·01411*
9. 40	·01467*
21. 45	·01694*
Oct. 12	
1. 51	·00947*
3. 40	·01808*
9. 40	·01511*

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
3. 40	56 ·0	58 ·5
9. 40	58 ·5	63 ·7
21. 44	51 ·0	54 ·0
1. 50	54 ·5	58 ·2
3. 40	56 ·0	59 ·2
9. 41	57 ·0	59 ·0
21. 40	52 ·0	55 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 12		Oct. 12		Oct. 12				
h m	° ′ ″	h m		h m		h m	°	°
9. 48	22. 11. 0	6. 35	·1017	21. 40	·01854			
9. 58	12. 0		***					
10. 9	10. 30	7. 42	·1010					
	***		***					
11. 16	10. 30	12. 36	·1028					
11. 29	11. 20	13. 45	·1023					
11. 46	9. 0	15. 55	·1028					
	***	16. 10	·1034					
15. 8	13. 0	16. 57	·1031					
15. 32	11. 15		***					
15. 43	12. 0	19. 26	·1044					
16. 1	10. 30		***					
16. 23	13. 0	22. 15	·1021					
16. 31	12. 25	23. 48	·1012					
17. 1	15. 40							
18. 15	13. 20							
18. 56	19. 35							
	***							
20. 35	8. 50							
	***							
22. 0	10. 5							
	***							
23. 59	15. 55							
Oct. 13		Oct. 13		Oct. 13				
0. 28	22. 16. 10	0. 20	·1011	1. 30	·01764	1. 40	54 ·5	57 ·5
2. 19	17. 20	0. 33	·1015	4. 0	·01431	3. 40	56 ·0	58 ·5
	***		***	5. 45	·01430	9. 38	57 ·5	60 ·0
8. 0	11. 5	2. 57	·1016	7. 0	·01447	21. 40	54 ·5	57 ·5
11. 57	11. 35		***	12. 30:	·01440			
12. 10	10. 0	4. 17	·1028	23. 30	·01892			
	***		***					
17. 0	12. 35	5. 3	·1018					
19. 52	11. 5		***					
21. 4:	9. 25	9. 58	·1028					
23. 49	16. 30	18. 23	·1035					
		23. 0	·1013					
		23. 42	·1012					
Oct. 14		Oct. 14		Oct. 14				
0. 0	22. 17. 0	0. 0	·1015	0. 30	·01896	1. 42	56 ·0	59 ·5
	***	6. 34	·1028	1. 48	·01851	3. 40	58 ·0	61 ·5
3. 8	17. 25	9. 0:	·1026	5. 12	·01454	9. 43	59 ·0	62 ·0
5. 40	13. 5	11. 30	·1034	6. 30	·01475	21. 40	54 ·5	56 ·8
8. 31	12. 0	16. 0	·1038	9. 0	·01435			
8. 41	11. 20	18. 0	·1041	11. 30:	·01448			
14. 45	13. 5	22. 34	·1017	21. 0	·01934			
15. 10	12. 0	23. 30	·1016	23. 30	·01910			
	***							
19. 0	12. 0							
21. 13	10. 10							
	***							

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 14								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 15. 55							
Oct. 15		Oct. 15		Oct. 15				
0. 7	22. 16. 5	0. 0	·1020	1. 0	·01891	2. 23	56 ·5	59 ·5
1. 0	18. 50	0. 10	·1022	8. 0	·01420	3. 40	57 ·5	60 ·5
6. 30	14. 10	5. 24	·1026	9. 42:	·01420	9. 40	57 ·5	61 ·5
13. 0	12. 5	11. 30	·1037	20. 30	·01924	21. 40	55 ·0	58 ·5
16. 36	13. 15	19. 36	·1044	23. 0	·01890			
	***		***					
18. 23	13. 10	20. 48	·1020					
	***	22. 37	·1016					
19. 52	9. 30		***					
	***	23. 30	·1028					
21. 41	14. 0	23. 59	·1017					
	***							
22. 50	13. 0							
	***							
23. 54	21. 30							
	***							
Oct. 16		Oct. 16		Oct. 16				
0. 59	22. 22. 25	0. 45	·1016	1. 0	·01880	2. 50	57 ·0	60 ·0
1. 9	25. 5	1. 0	·1010	2. 30:	·01820	3. 40	57 ·5	60 ·5
	***		***	9. 0:	·01411	9. 40	56 ·5	59 ·5
1. 57	18. 50	1. 30	·1005	16. 10	·01872	23. 0	49 ·5	51 ·8
	***	2. 13	·1016	23. 25	·01780			
2. 29	21. 5	2. 25	·1011					
2. 40	20. 20	2. 50	·1017					
3. 27	20. 55	3. 28	·1010					
	***	4. 55	·1018					
6. 38	10. 25	6. 4	·1016					
7. 23	13. 15	7. 12	·1028					
9. 17	12. 5	11. 50	·1029					
9. 38	10. 20	16. 30	·1040					
10. 7	9. 15	17. 18	·1039					
11. 30	9 30	18. 0	·1046					
13. 0	12. 35	18. 35	·1044					
17. 10	14. 30	19. 15	·1050					
	***	20. 46	·1049					
18. 0	12. 30	21. 7	·1040					
	***	23. 50	·1030					
21. 10	9. 0							
	***							
23. 39	19. 0							
	***							
Oct. 17		Oct. 17		Oct. 17				
0. 0	22. 16. 10	0. 0	·1018	1. 0	·01813	5. 44	57 ·0	59 ·0
	***		***	4. 2	·01400	21. 48	52 ·5	53 ·7
0. 32	21. 20	1. 45:	·1039		***			
1. 0	17. 5	2. 2	·1032	6. 27	·01473			
	***	2. 36	·1033	10. 10	·01380			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 17	° ′ ″	Oct. 17		Oct. 17		h m	°	°
h m		h m		h m				
1. 30	22. 17. 40	3. 3	·1014	11. 3	·01286			
	***	3. 34	·1010	11. 25	·01298			
1. 44	20. 35		***	11. 50:	·01282			
	***	4. 24	·1024	20. 46	·01915			
2. 52	19. 30	4. 45:	·1009	22. 15	·01875			
	***	5. 4	·1016	23. 30	·01892			
3. 17	22. 10		***					
3. 55	21. 35	5. 40	·1009					
	***	5. 45	·1019					
4. 33	17. 40	6. 4	·1000					
4. 58	16. 30	6. 19	·1015					
	***		***					
5. 40	5. 25	6. 36	·1018					
5. 52	10. 10	7. 7	·1008					
6. 11	5. 35	7. 26	·1008					
6. 58	12. 50	7. 42	1018					
7. 21	7. 53	7. 54	·1010					
7. 40	9. 25	8. 18:	·1015					
8. 1	7. 20		***					
8. 35	9. 0	8. 24	·1005					
9. 0	3. 25		***					
10. 0	8. 5	10. 0	·1018					
10. 24	22. 11. 35	10. 24:	·1036					
11. 2	21. 56. 55	11. 0:	·1020					
	***	11. 18	·1033					
11. 41	22. 1. 40		***					
12. 1	21. 53. 20	12. 17	·1012					
12. 59	22. 8. 55		***					
	***	14. 36	·1026					
13. 30	9. 30		***					
13. 45	7. 30	16. 8	·1024					
	***		***					
14. 40	14. 35	18. 27	·1038					
14. 51	13. 0		***					
	***	20. 18	·1020					
16. 22:	20. 0		***					
16. 48	13. 0	22. 0	·1016					
	***	22. 11	·1010					
17. 57	15. 20		***					
	***	22. 38	·1016					
19. 0	12. 45		***					
	***	23. 3	·1004					
20. 0	14. 30		***					
	***	23. 57	·1008					
20. 59	12. 35							
21. 10	15. 0							
21. 38	13. 5							
22. 20	14. 30							
	***							
22. 58	20. 0							
23. 6	18. 10							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 17	° ′ ″	h m		h m		h m	°	°
h m								
23. 30	22. 21. 40							
23. 33	20. 20							
23. 50	23. 0							
Oct. 18		Oct. 18		Oct. 18				
0. 0	22. 23. 0	0. 6	·1010	1. 0	·01824	1. 45	56 ·5	59 ·5
	***		***	2. 51	·01480	3. 40	59 ·0	62 ·0
0. 40	22. 0	0. 40	·1021	3. 15	·01473	9. 50	59 ·5	62 ·5
1. 0	28. 0		***	3. 35	·01499	21. 40	52 ·0	56 ·5
	***	2. 54	·1021	3. 41	·01489			
2. 21	17. 5	3. 10	·1010	4. 9	·01513			
	***	3. 28	·1022	4. 16	·01500			
2. 59	21. 0		***		***			
3. 14	17. 0	4. 12	·0983	5. 11	·01638			
3. 33	20. 0	4. 35	·1018	5. 18	·01588			
3. 45	17. 40	4. 42	·1005		***			
	***		***	5. 49	·01520			
4. 10	19. 0	4. 57	·1016	6. 36	{ ·01510			
4. 21	13. 0	5. 1	·1007		{ ·01755			
	***	5. 11	·1045	10. 4:	·01564			
4. 43	22. 17. 30	5. 17	·1029	13. 30	·01998			
	***	5. 28	·1059	18. 0	·01950			
5. 15	21. 45. 15	5. 38	·1052	19. 30	·01960			
5. 20	49. 0	5. 54	·1019	22. 5	·01932			
5. 31	21. 33. 30		***					
	***	6. 0	·1024					
6. 11	22. 10. 40	6. 12	·0991					
6. 17	8. 30	6. 15	·0995					
6. 28	14. 5	6. 27	·0973					
6. 33	7. 15	6. 36	·0994					
6. 45	12. 50		***					
7. 1	22. 12. 40	6. 49	·0996					
7. 28	21. 59. 25		***					
	***	7. 11	·0982					
8. 52	22. 11. 15	7. 29	·0990					
	***		***					
9. 32	9. 40	7. 36	·0985					
	***		***					
14. 0	11. 50	9. 42	·1008					
	***		***					
17. 10	13. 30	10. 34	·1021					
	***	10. 43	·1010					
18. 45	13. 0		***					
	***	11. 5	·1018					
20. 30	14. 5		***					
	***	12. 24	·1021					
21. 26	11. 30	12. 29	·1011					
	***	12. 42	·1022					
22. 5	12. 40	14. 52	·1018					
		14. 58	·1030					
		15. 5	·1022					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Oct. 18 h m		h m		h m	°	°
		20. 54	·1028					
		22. 5	·1019					
Oct. 19		Oct. 19		Oct. 19				
0. 5	22. 18. 30	0. 35	·1020	1. 0	·01952	1. 38	54 ·0	57 ·5
0. 37	19. 20	2. 0	·1032	2. 0	·01921	3. 40	55 ·5	59 ·5
	***	4. 25	·1013	5. 52	·01350	9. 40	57 ·0	59 ·0
4. 31	9. 20	4. 27	·1022	7. 16	·01363	21. 40	49 ·5	55 ·0
5. 0	11. 25	6. 15	·1019	9. 40:	·01305			
6. 10	22. 11. 5	6. 36:	·1003	18. 9	·01921			
7. 1	21. 56. 50	7. 12:	·1025	21. 46	·01877			
	***	8. 47	·1016		***			
8. 31	22. 12. 0	8. 7	·1021	23. 48	·01940			
8. 45	9. 55	8. 20	·1016					
	***	9. 58	·1019					
9. 45	9. 20	10. 8	·1026					
10. 2	0. 30	12. 10	·1024					
11. 30	11. 20	15. 27	·1033					
13. 1	11. 5	16. 25:	·1022					
14. 1	13. 35	18. 36	·1031					
14. 27	11. 0		***					
14. 39	13. 30	20. 0:	·1021					
15. 38	7. 5		***					
16. 31	9. 0	21. 37	·0985					
16. 48	6. 5	22. 3	·0990					
17. 40	10. 0		***					
17. 48	9. 15	22. 23:	·1004					
18. 32	12. 30		***					
19. 0	11. 35	22. 56	·0990					
	***		***					
20. 5	16. 30	23. 18	·1000					
	***		***					
21. 0	12. 45	23. 45	·0985					
	***	23. 59	·0991					
21. 46	14. 0		***					
	***							
22. 28	21. 0							
	***							
22. 32	19. 10							
	***							
22. 57	22. 0							
23. 12	21. 15							
	***							
23. 43	25. 25							
	***							
Oct. 20		Oct. 20		Oct. 20				
0. 48	22. 24. 30	0. 40	·0996	1. 0	·01910	1. 51	55 ·0	60 ·0
1. 3	20. 0		***	2. 48	·01515	3. 40	57 ·5	62 ·0
	...	0. 58	·0993	3. 55	·01436	9. 40	59 ·0	62 ·5
3. 54	13. 5	2. 37:	·1012	5. 0	·01460	21. 40	52 ·0	55 ·0
4. 42	22. 15. 15	3. 30:	·1004	5. 4	·01451			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 20		Oct. 20		Oct. 20				
h m	° ′ ″	h m		h m		h m	°	°
5. 20	21. 56. 50	4. 0	·1015	5. 11	·01480			
5. 59	22. 11. 55	4. 17	·1012	5. 32	·01496			
6. 4	10. 10	4. 38	·0996	9. 39	·01334			
6. 14	11. 40	4. 44	·0996	10. 26	·01355			
6. 51	22. 12. 0	4. 58	·1034	11. 27:	·01335			
7. 53	21. 52. 20	5. 23	·1002	14. 34:	·01657			
8. 37	22. 7. 5	5. 32	·1000	16. 32	·01871			
	***		***	20. 25	·01945			
9. 20	3. 30	5. 46	·0992	21. 43	·01920			
	***	6. 38	·1014		***			
10. 28	10. 25	7. 0	·0999	23. 58	·01974			
10. 53	1. 10		***					
11. 15	12. 0	8. 30	·1013					
11. 39:	2. 40		***					
11. 58	4. 30	9. 42	·1002					
	***		***					
13. 9	0. 30	10. 27	·1020					
13. 57	8. 25	10. 46	·1054					
14. 10	7. 40	11. 9	·0998					
14. 42	23. 0	11. 38	·1020					
15. 33	15. 0	12. 0:	·1004					
15. 47	15. 10	12. 29	·1018					
16. 14	9. 0		***					
	***	14. 13	·1008					
17. 29	8. 45	14. 28	·1024					
18. 10	11. 50		***					
18. 49	10. 25	15. 7:	·1012					
	***		***					
20. 27	18. 0	16. 9	·1036					
	***		***					
21. 43	13. 55	17. 34	·1020					
	***	18. 23	·1031					
23. 21	19. 5	19. 33	·0995					
23. 59	16. 40	19. 48	·1018					
			***					
		20. 28	·0999					
		20. 39	·1010					
			***					
		21. 31	·0991					
		21. 47	·1005					
			***					
		22. 44	·0986					
			***					
		23. 30	·0986					
		23. 48	·0998					
Oct 21		Oct. 21		Oct. 21				
0. 30	22. 20. 35	0. 30	·1010	1. 0	·01927	1. 40	54 ·5	57 ·5
	***	3. 4	·1016	4. 31	·01424	3. 40	56 ·5	60 ·5
2. 29	18. 15	3. 28:	·0992	10. 12	·01393	9. 40	59 ·8	63 ·5
2. 51	19. 30		***	10. 30	·01375	21. 40	58 ·0	63 ·0
3. 27	17. 0	4. 0	·1017	13. 0	·01360			

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 21		Oct. 21		Oct. 21		h m	g	°
h m	° ′ ″	h m		h m				
3. 59	22. 6. 30	5. 17	·1001	16. 0	·01363			
	***	6 17	·1011	19. 0	·01451			
5. 0	12. 20	6. 26	·1017	23. 30	·01491			
5. 40	11. 25		***					
6. 1	13. 40	7. 33	·1017					
7. 6	11. 40		***					
	***	8. 11	·1033					
8. 9:	3. 35		***					
8. 45	11. 0	9. 2	·1017					
10. 0	10. 30		***					
10. 15	6. 30	9. 56:	·1016					
10. 29	10. 10	10. 16	·1043					
10. 44	8. 25		***					
11. 5	12. 0	11. 10	·1016					
12. 0	11. 0		***					
12. 29	7. 5	11. 36:	·1022					
13. 0	13. 20	12. 28	·1015					
	***	16. 15	·1015					
17. 30	12. 45	17. 0	·1024					
	***		***					
18. 18	10. 20	19. 34	·1014					
	***		***					
20. 33	11. 10	22. 54	·1000					
21. 1	9. 25	23. 36	·0990					
	***							
23. 0	15. 30							
	***							
23. 55	17. 0							
Oct. 22		Oct. 22		Oct. 22				
1. 0	22. 18. 55	0. 0	·0990	1. 30	·01461	1. 40	61 ·5	65 ·5
4. 20	14. 0	0. 57	·0991	2. 20	·01480	3. 40	62 ·5	67 ·0
7. 42	11. 0		***	3. 30	·01475	9. 40	64 ·0	67 ·5
7. 47	10. 5	3. 6	·1000	4. 40	·01458	21. 40	63 ·0	67 ·5
9. 15	9. 10	3. 34:	·1012	5. 12	·01480			
10 19	11. 20	8. 54	·1012	5. 21	·01580			
18. 30	12. 30	9. 6:	·1030	6. 40	·01487			
19. 12	11. 0	9. 30	·1020	14. 0:	·01460			
20. 42	11. 50	18. 36	·1023	20. 7	·01652			
21. 1	4. 15	22. 57	·0992	22. 34	·01626			
22. 3	11. 5	23. 40	·0992					
	***							
23. 26	16. 55							
23. 29	15. 25							
23. 40	16. 30							
Oct. 23		Oct. 23		Oct. 23				
0. 0	22. 17. 0	0. 0	·0994	1. 0	·01655	1. 40	64 ·0	67 ·4
0. 33	18. 0	2. 6	·0996	5. 13	·01555	3. 40	63 ·0	67 ·5
0. 40	19. 50	3. 32	·1007	7. 30:	·01552	9. 40	61 ·0	64 ·5
9. 17	11. 20	11. 12	·1024	12. 15	·02080	23. 4	52 ·0	57 ·0
9. 59	9. 30	11. 38:	·1026		(1)			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 23		Oct. 23		Oct. 23		h m	g	°
h m	° ′ ″	h m		h m				
10. 21	22. 10. 30	11. 57	·1039	14. 53	·02080			
10. 41	7. 50	12. 33:	·1029	23. 14	·01987			
11. 57	12. 35	19. 0	·1038					
12. 20	10. 40	23. 12	·1018					
16. 41	11. 50							
17. 30	14. 45							
19. 28	12. 5							
19. 49	12. 35							
20. 33	10. 0							
22. 0	10. 50							
23. 13	16. 5							
Oct. 24		Oct. 24		Oct. 24				
0. 0	22. 20. 30	0. 0	·1011	1. 0	·02002	10. 35	57 ·5	62 ·0
1. 37	22. 0		***	9. 30:	·01412	21. 40	54 ·5	57 ·0
	***	4. 45	·1017	18. 13	·01984			
4. 39	15. 0		***	20. 15	·02000			
	***	6. 12	·1021	23. 30	·01980			
5. 37	15. 0	7. 30:	·1006					
	***	10. 3	·1032					
7. 58	10. 25	10. 27	·1021					
8. 41	12. 35	11. 30	·1019					
9. 12	11. 50	15. 24	·1029					
	***	18. 26	·1031					
10. 10	4. 0	23. 30	·1013					
11. 16	8. 0							
12. 11	7. 55							
13. 30	11. 30							
18. 0	12. 0							
21. 0:	10. 0							
21. 53	10. 50							
23. 39	17. 0							
Oct. 25		Oct. 25		Oct. 25				
0. 24	22. 17. 40	0. 0	·1014	1. 0	·01950	1. 40	55 ·5	58 ·5
	***	0. 30	·1018	3. 32	{·01834	3. 40	56 ·0	59 ·5
3. 0	17. 0	1. 34	·1032		{·01703	9. 40	54 ·5	58 ·0
4. 0	14. 20	9. 34	·1047	8. 30:	·01460	21. 40	48 ·0	52 ·5
10. 48	11. 45	11. 48	·1043	14. 15	·01922			
11. 13	9. 10	13. 27	·1045	23. 15	·01830			
11. 42	11. 0	20. 36	·1054					
12. 3	9. 15	23. 52	·1040					
	***							
17. 42	10. 30							
20. 42	9. 0							
23. 41	14. 0							
Oct. 26		Oct. 26		Oct. 26				
0. 0	22. 15. 0	0. 15	·1048	1. 0	·01821	1. 40	50 ·0	53 ·5
	***	3. 30	·1048	7. 30	·01210	3. 40	52 ·0	55 ·0
2. 58	17. 40		***	11. 30:	·01205	9. 40	53 ·5	57 ·0
3. 11	15. 25	4. 45	·1044	21. 0	·01761	21. 40	49 ·0	53 ·3

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 26		Oct. 26		Oct. 26				
h m	° ′ ″	h m		h m		h m	°	°
3. 32	22. 16. 20	5. 4	·1049	23. 30	·01786			
	***		***					
4. 49	13. 35							
8. 48	13. 25	6. 24	·1042					
9. 30	11. 20	7. 0	·1048					
			***					
14. 10	11. 30							
14. 30	10. 30	11. 44	·1045					
20. 0	11. 10	13. 35	·1046					
21. 30:	9. 35	19. 6:	·1054					
23. 41	15. 45	22. 22	·1036					
		23. 37	·1035					
Oct. 27		Oct. 27		Oct. 27				
0. 0	22. 16. 55	0. 0	·1037	1. 40	·01759*	1. 45	51 ·0	54 ·8
	***		***	3. 40	·01795*	3. 40	53 ·3	57 ·0
1. 45	21. 0	1. 39	·1037	9. 40	·01286*	9. 40	54 ·5	58 ·0
1. 58	20. 5	1. 48	·1031	21. 40	·01402*	21. 40	52 ·5	55 ·8
	***	1. 56	·1041					
			***					
2. 39	23. 0							
2. 44	20. 30	4. 0	·1024					
	***		***					
4. 4	15. 50	6. 32	·1028					
	***		***					
5. 31	18. 0	7. 4	·1018					
	***	7. 23	·1037					
			***					
6. 48	17. 0							
7. 17	7. 10	8. 8	·1022					
7. 50	15. 0	11. 0	·1037					
8. 27	10. 45	11. 24	·1045					
	***	11. 38	·1041					
9. 24	10. 0	12. 30:	·1032					
10. 45	11. 0	18. 15:	·1045					
11. 12	6. 30	19. 28:	·1044					
11. 31	9. 35	23. 24	·1022					
11. 55	8. 0							
14. 0	12. 20							
	***							
19. 0	12. 5							
21. 30:	10. 0							
23. 31	15. 10							
Oct. 28		Oct. 28		Oct. 28				
0. 0	22. 16. 5	0. 0	·1026	1. 0	·01436	1. 40	54 ·5	57 ·5
	***	1. 30	·1025	2. 55	·01301	3. 40	56 ·5	69 ·5
2. 11	17. 40	5. 25	·1038	5. 32	·01320	9. 40	56 ·5	58 ·5
	***	5. 32	·1033	6. 0	·01331	21. 40	49 ·0	54 ·0
6. 0	12. 45	7. 32	·1038	10. 0:	·01273			
	***	7. 36	·1046	18. 56	·01930			
12. 45	13. 0	7. 40	·1042	23. 30	·01861			
13. 22	11. 5		***					
	***	9. 45	·1040					
19. 30	11. 35	17. 35	·1052					
	***	18. 0	·1058					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 28		Oct. 28						
h m	° ′ ″	h m		h m		h m	°	°
21. 25	22. 8. 30	21. 42	·1045					
21. 54	11. 20	22. 4	·1033					
22. 6	9. 25	22. 17	·1038					
22. 24	12. 5	22. 35	·1026					
22. 42	12. 25		***					
	***	23. 45	·1024					
23. 15	19. 5							
23. 42	17. 0							
Oct. 29		Oct. 29		Oct. 29				
0. 8	22. 18. 35	0. 12	·1027	1. 0	·01910	1. 40	52 ·0	54 ·5
	***		***	9. 0	·01206	3. 40	54 ·0	58 ·0
1. 40	20. 55	2. 30	·1040	10. 33	·01213	9. 40	54 ·0	58 ·5
2. 10	18. 55		***	10. 54	·01200	21. 40	52 ·5	55 ·5
2. 32	21. 0	2. 54	·1034	11. 13	·01237			
2. 47	19. 0		***	13. 0	·01199			
3. 8	20. 40	5. 50	·1042	16. 0	·01217			
	***		***	19. 0	·01287			
4. 38	15. 50	6. 12	·1052	20. 30	·01342			
6. 0	14. 0		***	23. 15	·01385			
6. 31	14. 50	6. 48	·1042					
	***		***					
8. 0	14. 20	7. 32	·1056					
8. 30	12. 10	8. 5	·1044					
	***		***					
10. 10	10. 15	9. 26	·1050					
10. 31	22. 12. 30		***					
11. 8	21. 55. 20	9. 58	·1043					
11. 16	57. 5	10. 13	·1046					
11. 28	21. 56. 5		***					
11. 53	22. 5. 20	11. 0	·1026					
12. 8	2. 25	11. 10	·1044					
12. 23	3. 10	11. 15	·1038					
12. 40	8. 30	11. 40:	·1050					
12. 57	6. 5		***					
13. 11	7. 25	12. 36	·1036					
13. 29	5. 50	12. 44	·1044					
13. 41	10. 15		***					
	***	13. 2	·1034					
15. 15	13. 20		***					
	***	19. 16	·1044					
16. 28	11. 5		***					
	***	20. 40	·1013					
16. 53	12. 30		***					
	***	21. 4	·1024					
17. 18	11. 0	21. 10	·1011					
	***	21. 17	·1031					
18. 1	12. 35		***					
	***	22. 11	·1028					
19. 12	10. 0	23. 10	·1017					
	***	23. 34	·1024					
19. 47	11. 10							
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 29								
h m	° ′ ″	h m		h m		h m	°	°
20. 44	22. 16. 50							
	***							
21. 9	12. 0							
21. 18	15. 20							
	***							
21. 41	9. 0							
	***							
22. 28	16. 0							
	***							
22. 49	11. 5							
	***							
23. 35	15. 5							
	***							
Oct. 30		Oct. 30		Oct. 30				
0. 3	22. 15. 25	0. 0	·1019	1. 0	·01253	1. 40	56 ·0	57 ·5
	***	1. 42:	·1026		***	3. 40	59 ·5	61 ·2
1. 33	18. 15	3. 10	·1015	4. 20	·01480	9. 40	63 ·5	65 ·5
1. 49	16. 10	3. 34:	·1020	11. 0	·01430	21. 50	59 ·5	62 ·5
2. 3	17. 55	4. 4	·1013	14. 30:	·01380			
	***	4. 22:	·1016	22. 12	·01711			
4. 8	17. 35	4. 35	·1005					
	***		***					
4. 59	12. 20	4. 50	·1005					
5. 37	12. 45		***					
5. 51	11. 10	5. 12	·1018					
5. 59	11. 35		***					
6. 28	9. 5	7. 23	·1022					
7. 0	12. 45	11. 56	·1024					
8. 45	11. 0	12. 8	·1040					
11. 52	10. 35	12. 36	·1030					
12. 7	12. 40	12. 57	·1034					
12. 58	7. 35	13. 45	·1025					
	***	15. 14:	·1022					
14. 48	8. 35	15. 52:	·1038					
15. 11	12. 20		***					
15. 36	5. 0	17. 58	·1025					
	***	19. 44	·1029					
17. 0	10. 55	19. 55	·1023					
	***	20. 0	·1032					
19. 51	11. 0	20. 6	·1026					
19. 59	8. 40	20. 10	·1031					
20. 3	11. 25		***					
20. 9	9. 10	22. 12	·1017					
	***	23. 24	·1000					
21. 27	8. 50							
22. 15	11. 25							
Oct. 31		Oct. 31		Oct. 31				
0. 0	22. 18. 5	0. 0	·1003	0. 0	·01770	10. 0	61 ·5	63 ·5
	***	1. 45	·1014	1. 0	·01764	21. 40	57 ·0	61 ·0
2. 15	20. 35		***	4. 45	·01452			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 31		Oct. 31		Oct. 31				
h m	° ′ ″	h m		h m		h m	°	°
2. 32	22. 17. 0	2. 20	·1003	7. 13	{ ·01485			
	***	3. 0	·1015		{ ·01650			
5. 33	11. 0		***	10. 15	·01574			
6. 7	9. 10	5. 13	·1016	12. 12	·01600			
7. 31	12. 35	6. 55	·1031	12. 22	·01630			
7. 57	10. 0	7. 41	·1016	12. 27	·01635			
8. 9	0. 25		***	12. 29	·01634			
8. 15	22. 0. 30	8. 30	·1044	12. 32	·01573			
8. 27	21. 55. 20	9. 0	·1020		***			
8. 35	21. 55. 20	10. 17	·1018	13. 56	·01664			
9. 50	22. 8. 40	10. 18	·1041		***			
10. 59	4. 0	10. 51	·1029	14. 10	·01630			
11. 47	7. 10	11. 8	·1038	15. 17	·01685			
12. 20	11. 0		***	15. 38	·01651			
12. 28	15. 15	12. 8	·1029	16. 47	·01730			
12. 29	12. 10	12. 24	·1087	16. 57	·01760			
12. 31	15. 0	12. 35	·1029	17. 0:	·01745			
12. 40	10. 0		***		***			
	***	12. 45	·1036	21. 6	·02070			
12. 50	11. 0	12. 47	·1009	22. 30	·02094			
12. 54	5. 5		***					
13. 28	13. 0	13. 43	·1040					
13. 46	12. 40	13. 51	·1069					
13. 59	19. 0	14. 0	·1044					
14. 41	2. 5	14. 5	·1054					
15. 21	21 30	14. 7	·1043					
15. 46	6. 40		***					
15. 50	12. 0	15. 0	·1026					
16. 3	4. 0	15. 25	·1053					
16. 10	4. 5	15. 36	·1048					
	***	15. 43	·1067					
16. 32	17. 10	15. 45	·1053					
	***		***					
16. 45	14. 25	17. 34	·1023					
16. 50	16. 30		***					
16. 56	11. 10	18. 22	·1036					
16. 58	17. 5	19. 46	·1032					
	***	19. 50	·1020					
17. 29	9. 0	19. 54	·1030					
	***	19. 58	·1017					
17. 45	9. 0		***					
17. 58	15. 45	20. 25	·1013					
	***	20. 58	·1019					
18. 8	8. 0	21. 45	·1005					
	***	23. 36	·0995					
18. 15	10. 55	23. 59	·1000					
	***							
18. 32	8. 50							
18. 45	11. 0							
19. 0	8. 35							
	***							
19. 32	12. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 31								
h m	° ′ ″	h m		h m		h m	°	°
19. 33	22. 8. 15							
19. 51	13. 5 ***							
20. 9	9. 0 ***							
20. 13	15. 0 ***							
20. 34	10. 0 ***							
21. 9	12. 0 ***							
21. 59	10. 30 ***							
22. 2	12. 35 ***							
22. 33	12. 5							
23. 30	17. 5							
23. 59	17. 10							
Nov. 1		Nov. 1		Nov. 1				
0. 5	22. 18. 5	0. 13	·1000	1. 0	·02130	1. 40	60 ·5	64 ·0
0. 40	17. 30	1. 40	·1014	2. 2	·02095	3. 40	62 ·5	65 ·0
1. 45	19. 0	2. 8	·1008	8. 11	·01526	9. 40	64 ·0	67 ·2
2. 52	15. 0	3. 20	·1022 ***	10. 13	·01480	21. 40	62 ·5	67 ·0
3. 30	17. 35 ***			12. 30	·01503			
		5. 0	·1007	14. 0	·01460			
4. 11	15. 40 ***	5. 24	·1018 ***	16. 57	·01430			
				20. 0	·01565			
4. 54	17. 20	6. 20	·1023	22. 31	{ ·01582			
5. 16	12. 0	6. 41	·1009		{ ·01451			
5. 29	13. 0	6. 50	·1018	23. 46	·01505			
5. 42	4. 5	7. 24	·1000					
5. 48	5. 0	8. 25	·1021					
6. 11	1. 30 ***	9. 7	·1044					
		9. 25	·1026					
7. 16	16. 35	9. 33	·1034 ***					
7. 37	13. 20							
8. 26	10. 25	10. 45	·1004					
8. 30	11. 0	11. 58	·1005					
8. 54	1. 10	12. 28	·1030					
9. 22	9. 25	13. 8	·1032					
9. 31	4. 10	13. 59	·1013					
9. 39	5. 55	15. 18	·1034					
9. 43	3. 35	15. 57	·1007					
10. 9	22. 5. 0	17. 0	·0998 ***					
10. 22	21. 59. 55							
11. 25	22. 8. 30	18. 0	·1018 ***					
12. 20	6. 10							
12. 30	7. 0	23. 14	·0991					
12. 58	2. 35	23. 54	·1000					
13. 27	8. 0 ***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 1								
h m	° ′ ″	h m		h m		h m	°	°
14. 3	22. 3. 10							
14. 54	8. 0							
15. 29	5. 0							
15. 40	8. 20							
15. 57	8. 30							
16. 20	13. 40 ***							
16. 58	11. 30							
17. 10	14. 0							
18. 8	10. 30							
19. 7	16. 30							
19. 22	14. 30							
19. 37	15. 50							
19. 41	12. 45 ***							
20. 2	12. 0 ***							
20. 31	13. 5 ***							
20. 41	10. 25 ***							
20. 51	12. 45 ***							
21. 7	11. 0 ***							
21. 15	12. 20 ***							
22. 9	11. 30 ***							
23. 1	14. 0 ***							
23. 30	18. 0							
23. 45	15. 50							
23. 53	19. 35							
Nov. 2		Nov. 2		Nov. 2				
0. 41	22. 17. 0 ***	0. 42	·0996	1. 0	·01451	1. 40	64 ·0	66 ·5
		1. 45	·1006	5. 30	·01522	3. 40	65 ·3	67 ·2
1. 29	19. 15	2. 48	·1003	9. 27	·01500	9. 40	64 ·5	67 ·5
2. 26	17. 30	3. 27	·1015		(†)	21. 40	58 ·0	61 ·5
2. 57	15. 0 ***	9. 33	·1018	23. 14	·02132			
			(†)	23. 58	·02130			
7. 28	12. 25	21. 53	·1018					
7. 42	9. 20	22. 45	·1006					
8. 12	12. 10	23. 59	·1007					
9. 27	11. 30 (†)							
21. 53	11. 0 ***							
23. 4	15. 10							
23. 59	15. 35							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 3		Nov. 3		Nov. 3				
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 15. 30	0. 30	·1007	1. 0	·02158	1. 50	58 ·4	62 ·0
2. 0	17. 0	4. 16	·1018	1. 47	·02147	3. 40	60 ·0	63 ·0
	***		***		(†)	9. 40	63 ·5	67 ·0
4. 32	14. 0	5. 45	·1048	2. 33	·01771	21. 40	54 ·5	57 ·5
4. 42	15. 25	6. 15	·1007	8. 34	·01443			
5. 30	12. 30		***	9. 20	·01364			
5. 55	16. 35	7. 7	·1026	13. 0:	·01426			
6. 20	22. 12. 40		***	20. 28	·02100			
6. 59	21. 58. 30	8. 31	·1003	22. 37	·02053			
7. 31	22. 5. 55	8. 54	·1045	23. 45	·02089			
7. 39	5. 0		***					
8. 3	13. 55	10. 45	·1014					
8. 20	13. 25		***					
8. 41	3. 25	19. 25	·1034					
8. 59	11. 25		***					
9. 21	1. 10	22. 21	·1014					
9. 57	9. 5	23. 57	·1025					
11. 45	12. 30							
11. 59	14. 35							
12. 27	13. 5							
12. 58	16. 15							
13. 9	15. 20							
13. 29	17. 10							
14. 0	14. 0							
14. 33	12. 0							
15. 7	12. 30							
15. 23	11. 5							
16. 20	10. 10							
16. 50	11. 40							
18. 41	11. 55							
18. 51	13. 0							
19. 0	11. 20							
	***							
20. 0	10. 40							
20. 13	12. 5							
20. 29	10. 10							
	***							
22. 11	10. 35							
	***							
23. 59	16. 20							
Nov. 4		Nov. 4		Nov. 4				
0. 0	22. 16. 20	1. 15	·1014	1. 0	·02060	1. 40	57 ·2	60 ·0
	***	8. 32	·1013	4. 50	·01413	3. 40	59 ·5	63 ·5
2. 3	16. 20	9. 45	·1031	6. 26	·01430	9. 40	61 ·0	63 ·5
6. 0	10. 0	10. 2	·1024	9. 58:	·01360	21. 40	58 ·5	61 ·5
	***	19. 22	·1037	21. 30	·01711			
8. 12	10. 0	21. 18	·1019	23. 30	·01720			
8. 30	11. 10	23. 49	·1017					
8. 40	10. 30							
8. 59	12. 25							
9. 37	12. 0							

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 4								
h m	° ′ ″							
9. 52	22. 15. 55							
10. 13	11. 0							
15. 1	12. 30							
15. 30	14. 15							
16. 8	10. 25							
16. 39	9. 0							
	***							
18. 27	11. 30							
	***							
20. 39	12. 0							
21. 0	9. 15							
	***							
22. 10	9. 0							
	***							
23. 52	15. 25							
	***							
Nov. 5		Nov. 5		Nov. 5				
0. 0	22. 16. 20	0. 16	·1013	1. 0	·01616	1. 40	60 ·5	63 ·5
	***	1. 50	·1010	3. 13	·01375	3. 40	62 ·5	65 ·5
1. 14	16. 30	2. 21	·0993	9. 10	·01429	10. 0	64 ·5	68 ·5
1. 37	18. 35		***		·01685	21. 40	56 ·0	58 ·0
1. 50	18. 0	7. 1	·1022	10. 22:	·01633			
2. 36	19. 30	7. 17	·1011	16. 46	·02197			
	***	7. 27	·1017	23. 0	·02070			
4. 13	15. 25	8. 46	·1001					
4. 41	16. 0	9. 10	·1021					
5. 1	13. 0	10. 5	·1011					
5. 30	13. 0	18. 47	·1031					
6. 1	9. 20	19. 37	·1020					
6. 10	10. 20		***					
6. 29	3. 30	21. 42	·1030					
6. 45	2. 30	23. 13	·1007					
7. 11	8. 15							
7. 28	8. 5							
7. 36	9. 40							
8. 30	22. 10. 0							
8. 58	21. 59. 30							
10. 30	22. 10. 20							
	***							
12. 43	11. 25							
13. 42	13. 25							
14. 23	11. 10							
14. 50	13. 20							
	***							
16. 11	8. 35							
16. 24	11. 0							
17. 53	9. 0							
	***							
20. 1	14. 0							
	***							
21. 7	10. 5							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 5								
h m	° ′ ″	h m		h m		h m	°	°
21. 40	22. 12. 25							
21. 55	11. 25							
23. 59	15. 0							
Nov. 6		Nov. 6		Nov. 6				
0. 15	22. 16. 45	0. 15	·1013	1. 0	·02116	1. 40	58 ·0	60 ·5
1. 32	17. 30		***	2. 0	·02070	3. 40	60 ·0	62 ·5
1. 59	16. 0	2. 0	·1009	5. 54	·01347	9. 40	57 ·0	61 ·0
2. 11	17. 10		***	10. 4	·01302	22. 40	59 ·5	62 ·5
2. 28	15. 30	3. 6	·1022	12 30	·01287			
3. 23	16. 0		***	13. 30	·01311			
5. 0	12. 25	6. 10	·1015	14. 48	·01272			
5. 15	13. 20	6. 45	·1024	23. 10	·01285			
6. 27	7. 5	7. 51	·1008					
6 41	6. 35	18. 30	·1033					
6. 56	8. 45	21. 0	·1012					
7. 19	5. 0	23. 59	·1013					
7. 38	9. 0		***					
7. 59	8. 0							
8. 12	9. 5							
8. 38	3. 30							
9. 20	4. 5							
10. 44	10. 0							
11. 6	8. 20							
13. 12	10. 25							
14. 10	13. 5							
15. 27	9. 25							
	***							
17. 9	9. 5							
18. 38	9. 25							
20. 12	12. 20							
20. 46	11. 0							
21. 59	14. 30							
22. 46	12. 30							
23. 5	13. 45							
23. 45	15. 0							
Nov. 7		Nov. 7		Nov. 7				
0. 0	22. 15. 10	1. 47	·1006	0. 0	·01314	9. 40	61 ·0	64 ·2
0. 59	17. 25		***	1. 47	·01330	21. 40	59 ·6	63 ·2
1. 12	20. 0	2. 30	·1021	6. 21	·01320			
	***	8. 3	·1028	7. 0	·01331			
2. 26	16. 0	8. 33	·1019	8. 29	·01325			
4. 25	12. 25	18. 11	·1029	9. 0	·01344			
8. 16	11. 5	23. 59	·1007	13. 47	·01311			
8. 40	3. 5			20. 0	·01431			
9. 8	8. 5			22. 12	{ ·01527			
9. 49	7. 35				{ ·01453			
10. 19	9. 55			23. 0	·01450			
11. 20	8. 10							
12. 18	9. 25							
12. 41	8. 10							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 7								
h m	° ′ ″	h m		h m		h m	°	°
13. 9	22. 9. 0							
13. 33	12. 50							
13. 47	11. 35							
18. 49	11. 0							
22. 0	9. 0							
23. 59	14. 0							
Nov. 8		Nov. 8		Nov. 8				
0. 13	22. 14. 0	0. 15	·1009	1. 0	·01379	1. 40	62 ·0	66 ·4
1. 50	16. 25	4. 44	·1025	1. 32	·01350	3. 40	64 ·0	67 ·5
5. 30	11. 30	7. 38	·1019	4. 0	·01440	9. 40	64 ·0	67 ·5
7. 20	11. 30	8. 5	·1026	5. 0	·01422	21. 40	62 ·2	65 ·8
7. 50:	6. 25	11. 15	·1026	11. 30	·01412			
8. 25	11. 0	11. 44	·1035	14. 30	·01380			
11. 36	11. 25	14. 6	·1024	18. 30	·01415			
12. 10:	9. 0	20. 45	·1027	21. 42	{ ·01398			
13. 11	11. 45	23. 59	·1014		{ ·01500			
13. 28	10. 10			23. 30	·01480			
14. 9	11. 40							
15. 8	10. 10							
16. 36	11. 30							
16. 50	10. 35							
20. 9	9. 50							
20. 29	8. 20							
21. 58	9. 0							
23. 48	13. 0							
Nov. 9		Nov. 9		Nov. 9				
0. 0	22. 13. 30	0. 15	·1013	1. 0	·01480	1. 40	62 ·8	66 ·0
1. 30	16. 35	3. 27	·1025	4. 30	·01380	3. 40	63 ·0	67 ·0
5. 0	11. 55	7. 3	·1025	5. 51	·01422	9. 40	63 ·0	66 ·0
6. 30	12. 45	18. 45:	·1051	10. 30:	·01410	21. 40	59 ·0	62 ·0
8. 40	11. 5	23. 55	·1020	23. 17	·02182			
16. 3	11. 30				(†)			
16. 31	12. 25							
17. 7	10. 35							
17. 27	11. 10							
18. 11	9. 5							
19. 53	12. 0							
20. 7	11. 0							
21. 38	10. 25							
23. 0	14. 0							
23. 42	15. 0							
Nov. 10		Nov. 10		Nov. 10				
0. 0	22. 14. 5	2. 12	·1030	4. 45	·02172	4. 20	59 ·5	63 ·0
0. 25	13. 25		***	12. 0:	·01960	7. 16	60 ·0	64 ·0
0. 50	16. 0	3. 9	·1014	16. 33	·02161	21. 40	53 ·0	56 ·0
1. 7	15. 0		***	16. 38	·02146			
1. 48	19. 0	4. 45	·1018	23. 2	·02081			
2. 32	17. 0	6. 46	·1037					
2. 48	18. 20	8. 43	·1027					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 10		Nov. 10						
h m	° ′ ″	h m		h m		h m	°	°
3. 12	22. 16. 10	10. 28	·1038					
4. 36	15. 30	15. 16	·1031					
7. 56	10. 10	16. 5	·1043					
	***	19. 13	·1048					
12. 0	10. 50	19. 38:	·1059					
	***	21. 46	·1032					
15. 1	9. 15	23. 30	·1034					
15. 39	11. 50							
16. 37	5. 40							
	***							
22. 39	11. 40							
23. 4	9. 40							
23. 34	17. 30							
	***							
23. 54	15. 0							
Nov. 11		Nov. 11		Nov. 11				
0. 0	22. 15. 30	0. 46	·1028	1. 0	·02115	1. 40	56 ·0	59 ·5
0. 34	12. 40		***	6. 22	·01794	3. 40	57 ·5	60 ·0
0. 44	17. 0	2. 56	·1028	7. 12	·01839	9. 40	58 ·0	61 ·4
0. 52	15. 0		***	7. 20	·01820	21. 40	57 ·0	59 ·5
1. 20	17. 50	4. 48	·1051	7. 40	·01881			
1. 30	16. 0		***	7. 46	·01854			
4. 10	13. 30	5. 28	·1044	8. 0	·01931			
5. 43	16. 30	5. 37	·1059	8. 2	·01892			
6. 30:	22. 20		***	8. 6	·02027			
	***	6. 55	·1003	8. 8	·01980			
7. 11	19. 5	7. 8	·1012	8. 18	·02199			
	***	7. 20	·1006		(†)			
7. 35	8. 0	7. 32	·1028	8. 43	·02200			
	***	7. 44:	·1019	9. 22	·01790			
7. 43	9. 0	7. 58	·1037	10. 7	·01541			
8. 10	22. 46. 10	8. 1	·1022	10. 36	·01627			
8. 56	21. 37. 10	8. 5	·1050	10. 53	·01610			
	***	8. 21	·0980	11. 5	·01644			
9. 30:	54. 0	8. 25	·1031	11. 33	·01597			
9. 50	33. 20	8. 30	·1018	12. 0	·01612			
10. 5	53. 10	8. 31	·1033	13. 44	·01457			
10. 20	21. 45. 50	8. 38	·1000	14. 48	·01451			
10. 50	22. 10. 30	8. 43	·1045	15. 20	·01380			
11. 3	5. 0	8. 50	·1010		***			
11. 15:	5. 40	9. 34	·0979	21. 0	·01395			
11. 45:	0. 30	9. 51	·1027		***			
	***	10. 7	·0987	23. 57	·01542			
11. 54	10. 0	10. 32	·1024					
13. 27	0. 50	10. 57	·0999					
14. 30	9. 30	11. 13	·1017					
14. 55	24. 10	11. 30	·1003					
15. 17	15. 5	11. 58	·1010					
	***	12. 18	·1005					
16. 45	8. 0	12. 54:	·1020					
17. 37	13. 30		***					
Nov. 11		Nov. 11						
h m	° ′ ″	h m		h m		h m	°	°
19. 10	22. 14. 0	14. 42	·1001					
19. 37	18. 20	15. 18	·1022					
19. 46	16. 5		***					
	***	16. 11	·1018					
20. 37	25. 40	16. 14	·1030					
20. 55	25. 40	16. 20	·1019					
	***		***					
22. 30	15. 5	17. 31	·1041					
22. 35	19. 20	18. 14	·1025					
22. 40	15. 35	19. 30	·1028					
	***		***					
23. 8	12. 55	20. 18	·0990					
23. 36	20. 0	21. 20	·1022					
23. 46	15. 35	23. 4	·0999					
23. 53	20. 25	23. 59	·1010					
	***							
Nov. 12		Nov. 12		Nov. 12				
0. 30	22. 17. 35	0. 15	·0994	1. 0	·01490	1. 40	59 ·2	62 ·4
0. 48	19. 30	2. 13	·1020	1. 53	·01353	3. 40	59 ·6	62 ·5
	***	2. 38	·1008	2. 46	·01340	9. 40	56 ·5	59 ·5
1. 30	17. 0	2. 49	·1017	3. 58	·01391	21. 40	54 ·0	58 ·0
	***	3. 27	·0991	6. 16	·01344			
2. 35	22. 30	4. 47	·1025	6. 50	·01371			
2. 47	20. 0	5. 2	·1002	7. 37:	·01355			
2. 56	22. 30		***	17. 43	·02087			
	***	6. 0	·1023	19. 0	·02030			
3. 17	20. 0	6. 20	·1000	22. 24	·02050			
	***		***		***			
3. 48	6. 10	7. 5	·1031	23. 30	·02090			
	***	7. 50	·1013					
4. 18	7. 0	8. 20	·1035					
	***	8. 45	·1005					
4. 43	14. 0	9. 34	·1000					
4. 48	10. 55	9. 59	·1021					
4. 57	15. 55	10. 8	·1005					
5. 8	12. 0	10. 58	·1028					
	***	11. 16	·1019					
6. 15	11. 0	11. 56	·1034					
	***	12. 30	·1022					
6. 43	3. 30		***					
7. 21	10. 0	20. 33	·1037					
8. 9	0. 0	22. 16	·0984					
8. 41	7. 25	23. 0	·0989					
9. 0	1. 15	23. 55	·1003					
9. 36	1. 50							
10. 11	12. 40							
10. 38	3. 30							
11. 49	7. 20							
12. 0	3. 20							
	***							
13. 47	16. 50							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 12								
h m	° ′ ″	h m		h m		h m	°	°
14. 30	22. 12. 30							
16 40	11. 30							
17. 30	15. 35							
17. 58	23. 30							
19. 4	11. 35							
	***							
20. 54	14. 0							
21. 21	10. 20							
22. 24	14. 0							
22. 35	18. 0							
22. 41	15. 50							
22. 55	17. 0							
23. 12	13. 30							
23. 28	19. 0							
	***							
Nov. 13		Nov. 13		Nov. 13				
0. 18	22. 13. 30	0. 44	·1018	2. 1	·01067	1. 40	54 ·0	57 ·5
	***		***	3. 0	·01005	3. 40	55 ·0	58 ·2
0. 45	20. 30	1. 55	·1004		***	9. 40	56 ·0	59 ·5
	***		***	4. 9	·01075	22. 40	54 ·0	58 ·0
1. 17	22. 0	2. 35	·1016		***			
1. 45	17. 0	3. 8	·1000	4. 41	·01051			
	***	3. 29	·1021		***			
2. 57	23. 0		***	5. 15	·01093			
3. 24	12. 0	4. 2	·1016	8. 11	·01016			
	***	4. 47	·0982		***			
4. 6	9. 0	5. 28	·1028	8. 46	·00940			
4. 15	18. 30		***	9. 51	·00967			
4. 27	13. 40	8. 33	·1003	12. 58	·00940			
4. 36	22. 17. 30		***		***			
5. 9	21. 54. 0	8. 55	·1014	14. 9	·00930			
5. 45	22. 12. 0		***	14. 30	·00865			
6. 28	10. 0	9. 13	·0998	14. 40	·00880			
6. 50	5. 0	10. 0	·1026		***			
7. 3	4. 30	12. 13	·1038	15. 0	·00845			
7. 25	9. 0		***		***			
7. 40	22. 8. 30	12. 59	·1025	20. 54	·01120			
7. 55	21. 53. 5	13. 7	·1051	21. 15	·01180			
8. 15	21. 47. 30	13. 12	·1026		***			
8. 38	22. 8. 40	13. 17	·1047	23. 17	·01230			
	***		***					
8. 59	21. 58. 0	13. 35	·1021					
	***		***					
10. 26	22. 11. 0	14. 7	·1041					
12. 8	0. 30		***					
12. 40:	8. 40	15. 46	·1011					
13. 3	9. 30		***					
13. 7	13. 0	16. 3	·1025					
	***	17. 1	·1040					
13. 54	3. 0	17. 58	·1016					
14. 15	11. 0		***					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Nov. 13		Nov. 13						
h m	° ′ ″	h m		h m		h m	°	°
14. 32	22. 5. 10	19. 48	·1006					
	***		***					
14. 57	9. 50	20. 24	·1067					
15. 3	7. 50	20. 58	·1005					
15. 36	22. 5	21. 8	·1021					
	***	21. 32	·1014					
16. 2	26. 0	23. 59	·1018					
16. 45	15. 50		***					
17. 30	15. 10							
	***							
19. 24	29. 50							
19. 47	29. 40							
20. 12	24. 30							
20. 27	29. 50							
20. 58	18. 30							
21. 6	13. 30							
21. 16	25. 0							
21. 56	14. 25							
	***							
22. 45	14. 0							
22. 55	17. 0							
22. 57	14. 0							
	***							
23. 59	15. 0							
Nov. 14		Nov. 14		Nov. 14				
0. 30	22. 16. 0	1. 35	·1015	1. 0	·01290	12. 0	55 ·0	59 ·0
	***		***	5. 0	·01281	21. 40	55 ·8	58 ·5
3. 42	11. 30	2. 35	·1027	12. 6	·01030			
7. 14	11. 20	2. 42	·1019	12. 30	·01040			
7. 31	8. 50	2. 57	·1033	13. 8	·00993			
7. 58	10. 30		***	23. 0	·00940			
8. 11	5. 30	3. 28	·1020					
8. 28	10. 0		***					
8. 47:	5. 30	19. 28	·1037					
9. 17:	9. 35		***					
9. 43:	7. 50	23. 32	·1017					
	***							
11. 34	10. 25							
12. 14:	6. 0							
12. 39	17. 35							
13. 14	9. 20							
14. 32	10. 50							
22. 30	9. 30							
	***							
23. 59	13. 30							
Nov. 15		Nov. 15		Nov. 15				
1. 30	22. 15. 50	0. 23	·1017	1. 30	·01060	1. 40	58 ·0	62 ·0
5. 11	12. 0	1. 15	·1025	3. 13	·01110	3. 40	60 ·0	63 ·0
5. 31	7. 10	5. 7	·1027	4. 40	·01100	9. 40	60 ·5	63 ·7
6. 7	12. 35	5. 25	·1012	5. 44	·01139	21. 40	58 ·0	60 ·0
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov.15		Nov.15		Nov.15				
h m	° ′ ″	h m		h m		h m	°	°
10. 20	22. 11. 55	5. 37	·1020	13. 0:	·01051			
10. 49	22. 9. 0		***	22. 0	·01480			
11. 25	21. 58. 40	8. 30	·1035	23. 45	·01462			
11. 56	22. 12. 30		***					
13. 7	7. 40	10. 50	·1022					
15. 12	12. 30	11. 21	·1043					
22. 13	11. 30		***					
23. 59	14. 0	11. 53	·1025					
			***					
		19. 33	·1038					
		23. 59	·1030					
Nov.16		Nov.16		Nov.16				
0. 43	22. 14. 50	1. 0	·1020	1. 30	·01413	1. 40	59 ·0	63 ·0
4. 28	11. 20		***	6. 44	·01096	3. 40	60 ·0	63 ·0
5. 0:	13. 30	6. 28	·1022	9. 42	·01050	9. 40	59 ·0	63 ·5
5. 30	11. 30	6. 52	·1000	10. 46	·01069	21. 40	56 ·5	58 ·5
6. 29	13. 0	7. 22	·1020	11. 3:	·01040			
7. 10	4. 10	7. 50	·1005	21. 0	·01530			
7. 45	12. 10	8. 33	·1008	23. 51	·01540			
8. 17	22. 10. 0	8. 45	·1023					
8. 40	21. 59. 30	9. 23	·1021					
9. 20	22. 7. 0	9. 36	·1031					
9. 35	21. 58. 0	10. 13	·1014					
10. 18	22. 8. 20	10. 50	·1028					
10. 37	8. 0	11. 7	·1013					
10. 55	13. 30	11. 45	·1038					
11. 36	3. 10		***					
	***	18. 32	·1031					
13. 50	14. 30		***					
14. 16	12. 30	21. 20	·1021					
14. 45	17. 0		***					
	***	22. 49	·1005					
17. 23	10. 20		***					
18. 27	12. 40	23. 38	·1018					
	***							
21. 22	10. 35							
	***							
22. 38	14. 35							
	***							
23. 10	12. 30							
23. 37	17. 50							
Nov.17		Nov.17		Nov.17				
0. 20	22. 15. 30	1. 3	·1016	1. 0	·01540	1. 40	57 ·0	58 ·0
0. 43	18. 0	2. 57	·1021	3. 30	·01434	3. 40	57 ·8	58 ·3
	***	3. 45	·1009	4. 40	·01405	9. 40	56 ·5	58 ·3
1. 28	15. 35	4. 14	·1016	6. 21	·01250	20. 2	54 ·0	57 ·0
1. 42	18. 0		***	6. 32	·01261			
	***	4. 56	·1006	7. 50	{ ·01180			
4. 52	9. 30		***		{ ·01560			
5. 15	11. 50	6. 7	·1020	11. 0	·01577			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov.17		Nov.17		Nov.17				
h m	° ′ ″	h m		h m		h m	°	°
5. 44	22. 9. 20	6. 21	·0998	12. 30	·01510			
6. 7	22. 10. 55	6. 42	·1038	20. 22	·01445			
6. 29	21. 55. 0		***					
	***	7. 10	·1024					
7. 30	22. 12. 0	10. 42	·1031					
9. 35	11. 10	11. 3	·1057					
10. 6	8. 0	11. 45	·1030					
10. 33	10. 0	20. 59	·1039					
10. 51	4. 20	23. 59	·1015					
11. 26	10. 57							
16. 2	13. 0							
18. 10	12. 0							
20. 3	15. 30							
22. 15:	13. 55							
23. 40	18. 0							
23. 52	20. 30							
Nov.18		Nov.18		Nov.18				
0. 1	22. 19. 25	0. 30	·1015	0. 0	·01450	8. 3	54 ·0	58 ·0
	***		***	3. 0	·01419	21. 40	47 ·0	50 ·0
3. 10	20. 0	5. 27	·1012	8. 0:	·01202			
3. 40	16. 35	5. 48	·1038	13. 2	·01412			
4. 16	15. 20	6. 10	·1024	19. 0	·01349			
5. 2	22. 15. 0	6. 57	·1017	23. 30	·01355			
5. 35	21. 58. 0		***					
6. 48	22. 15. 20	10. 27	·1037					
	***	20. 57	·1047					
8. 45	7. 10	22. 7	·1031					
9. 25:	10. 20	23. 59	·1035					
10. 0	6. 4							
10. 30	10. 0							
	***							
23. 50	13. 30							
Nov.19		Nov.19		Nov.19				
0. 45	22. 14. 30	1. 0	·1034	1. 0	·01348	1. 40	49 ·0	52 ·0
	***	10. 50	·1033	4. 41	·00930	3. 40	51 ·5	55 ·5
5. 19	10. 20	11. 32	·1058	5. 30	·00951	9. 42	55 ·0	58 ·0
5. 58	12. 0	12. 40	·1036	11. 13	·00942	21. 40	53 ·5	57 ·0
7. 57	8. 55	20. 0	·1048	12. 30	·00920			
8. 13	11. 0	23. 59	·1029	16. 0	·00887			
	***			18. 0	·00951			
11. 50	8. 30			21. 50	·01051			
17. 30	12. 0			23. 30	·01077			
17. 48	14. 20							
18. 33	13. 0							
19. 0	14. 20							
22. 8	10. 0							
23. 59	13. 30							
Nov.20		Nov.20		Nov.20				
1. 10	22. 15. 0	1. 50	·1031	1. 0	·01045	1. 40	54 ·0	57 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.
Nov.20	
h m	° ′ ″
11. 0	22. 10. 15
21. 43	9. 57
23. 59	14. 30
Nov.21	
0. 30	22. 15. 20
5. 53	10. 30
12. 20	11. 0
12. 50	12. 50
13. 59	11. 10
21. 0	11. 10
23. 59	13. 50
Nov.22	
1. 0	22. 15. 0
4. 0	12. 10
8. 30	12. 0
8. 55	9. 20
12. 26	10. 55
13. 20	5. 30
13. 40	9. 0
14. 0	7. 50
	***
14. 54	12. 30
	***
17. 30	10. 30
18. 8:	13. 0
19. 0	9. 20
20. 54	11. 0
21. 55	10. 0
	***
23. 59	15. 0
Nov.23	
0. 5	22. 15. 20
3. 7	13. 30
4. 17	14. 58
4. 33	16. 20
5. 25	13. 0
	***
8. 57	12. 0
	***
10. 0	9. 0
	***
13. 0	10. 20
12. 15	5. 30
13. 47	2. 30
14. 15	7. 30
	***

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Nov.20	
h m	
2. 4	·1024
4. 45	·1035
20. 25	·1042
23. 59	·1031
Nov.21	
1. 0	·1033
10. 57	·1041
11. 54	·1034
19. 41	·1047
23. 59	·1034
Nov.22	
0. 30	·1033
7. 44	·1051
9. 3	·1030
11. 13	·1046
13. 14	·1040
13. 30	·1051
13. 52	·1040
19. 50	·1059
23. 20	·1045
Nov.23	
0. 8	·1047
3. 29	·1051
4. 40	·1037
7. 30	·1051
12. 20	·1054
12. 58	·1043
13. 27	·1064
14. 22	·1041
	***
16. 35	·1047
17. 11	·1059
	***
21. 45	·1052
23. 46	·1042

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Nov.20	
h m	
2. 15	·00954
7. 10	·01010
7. 17	·01202
11. 0	·01166
13. 0:	·01178
21. 0	·01390
23. 30	·01399
Nov.21	
1. 0	·01370
7. 9	·01007
11. 44	·01020
12. 0	·01300
14. 0:	·01231
22. 5	·01551
23. 15	·01539
Nov.22	
1. 0	·01552
2. 23	·01539
8. 2	·01140
8. 15	·01280
9. 22	·01285
11. 30:	·01317
16. 17	·01524
21. 0	·01470
23. 30	·01396
Nov.23	
1. 0	·01414
3. 0	·01430
9. 30	·00990
11. 30	·00970
14. 0	·00970
20. 21	·01045
21. 51	·01030
23. 30	·01052

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
3. 40	57 ·0	60 ·5
9. 40	57 ·5	61 ·2
23. 48	56 ·0	58 ·0
10. 15	58 ·5	62 ·5
21. 40	55 ·0	59 ·2
1. 40	56 ·0	59 ·2
3. 40	56 ·5	58 ·5
9. 40	54 ·0	59 ·0
21. 40	49 ·5	54 ·0
1. 40	49 ·6	54 ·0
3. 40	54 ·5	59 ·3
9. 40	53 ·0	58 ·0
21. 40	49 ·0	52 ·0

Gottingen Mean Solar Time.	Western Declination.
Nov.23	
h m	° ′ ″
15. 13	22. 10. 30
16. 41	9. 40
17. 0	12. 30
17. 45	9. 55
23. 59	12. 30
Nov.24	
1. 0	22. 14. 50
1. 27	15. 20
	***
2. 17	12. 30
	***
2. 45	14. 20
3. 45	19. 50
	***
7. 45	12. 20
8. 6	15. 0
8. 36	10. 0
9. 12	11. 35
	***
10. 15:	3. 15
11. 42	11. 5
12. 38	10. 0
18. 30	11. 0
21. 30	9. 50
23. 30	12. 0
Nov.25	
0. 0	22. 12. 30
1. 5	16. 0
5. 36	10. 0
7. 3	22. 12. 40
7. 54	21. 55. 0
	***
8. 55	22. 11. 50
9. 33	7. 10
9. 48	9. 10
10. 10	7. 10
	***
12. 45	10. 0
	***
13. 25	2. 0
13. 53	8. 0
14. 10	4. 0
14. 48	8. 0
	***
15. 35	7. 30
	***
16. 24	13. 0
	***
17. 46	9. 0
	***

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
Nov.24	
0. 45	·1040
2. 15	·1035
2. 37	·1040
9. 30	·1030
10. 37	·1046
18. 48	·1059
22. 17	·1049
22. 50	·1033
23. 59	·1041
Nov.25	
0. 30	·1034
	***
5. 32	·1044
	***
6. 0	·1054
7. 29	·1033
8. 0	·1050
	***
9. 13	·1022
11. 17	·1039
12. 58	·1033
13. 35	·1078
14. 32	·1031
18. 49	·1055
22. 0	·1050
23. 26	·1038

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Nov.24	
1. 0	·01027
2. 12	·00930
4. 30	·00953
11. 2	·00981
	·01220
16. 1	·01480
23. 30	·01370
Nov.25	
1. 0	·01414
2. 0	·01340
4. 23	·00950
5. 0	·00981
9. 51	·00921
14. 0::	·00940
19. 8	·01273
21. 45	·01230
23. 30	·01142

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	54 ·0	56 ·0
3. 40	55 ·0	57 ·5
9. 40	55 ·5	58 ·0
21. 40	48 ·0	51 ·0
1. 40	49 ·0	54 ·5
3. 40	57 ·0	61 ·0
9. 40	55 ·0	57 ·5
21. 40	53 ·5	57 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.25								
h m	° ′ ″	h m		h m		h m	°	°
22. 12	22. 9. 25							
23. 42	12. 15							
Nov.26		Nov.26		Nov.26				
0. 0	22. 12. 15	0. 0	·1042	1. 0	·01050	1. 40	57 ·0	59 ·0
5. 8	13. 10	2. 8	·1036	1. 45	·00990	3. 40	58 ·5	60 ·5
5. 30	16. 0		***	2. 7	·01120	9. 40	59 ·0	63 ·0
6. 27	16. 0	5. 13	·1047	3. 42	·01020	21. 40	53 ·5	56 ·0
6. 55	11. 30	5. 58	·1015		·01238			
7. 55	17. 10		***	5. 41	·01110			
8. 8	14. 0	7. 17	·1039	8. 0	·01090			
8. 22	19. 10		***	8. 7	·01121			
8. 40	2. 15	8. 7	·1019	8. 23	·01080			
	***	8. 10	·1041	11. 11	·01096			
9. 15	7. 30	8. 34	·1006	13. 6:	·01000			
9. 32	3. 0	8. 48	·1025	20. 45	·01510			
	***	8. 58	·1019		***			
10. 14	7. 15	9. 42	·1020	23. 30	·01470			
	***		***					
11. 15	2. 15	10. 43	·1014					
11. 30	10. 30	11. 23	·1045					
11. 45	4. 0	11. 39	·1023					
11. 54	6. 0	12. 12	·1055					
12. 4	5. 0	13. 3	·1028					
12. 33	10 30		***					
	***	15. 52	·1036					
13. 33	5. 0	16. 22	·1026					
14. 46	15. 0	17. 29	·1043					
15. 33	11. 15		***					
16. 34	16. 20	21. 17	·1033					
	***	21. 29	·1045					
18. 4	11. 0	21. 32	·1029					
19. 24	9. 15		***					
	***	21. 45	·1040					
20. 37	14. 30		***					
20. 42	11. 20	23. 41	·1033					
	***							
21. 24	10. 0							
	***							
21. 30	15. 0							
21. 34	10. 0							
	***							
23. 30	13. 0							
Nov.27		Nov.27		Nov.27				
0. 0	22. 13. 50	0. 30	·1033	1. 0	·01478	1. 40	54 ·0	57 ·5
	***		***	2. 6	·01478	3. 40	57 ·0	60 ·0
0. 55	15 10	3. 33	·1017	5. 51	·01026	9. 40	55 ·0	57 ·0
	***	4. 17	·1033		·01284	22. 0	49 ·0	53 ·0
1. 16	18. 30		***	6. 32	·01243			
1. 36	16. 30	7. 31	·1030	7. 29:	·01243			
	***	7. 51	·1058	12. 8	·01531			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.27		Nov.27		Nov.27				
h m	° ′ ″	h m		h m		h m	°	°
3. 7	22. 17. 0	9. 15	·1032	13. 0	·01491			
	***	11. 3	·1037	22. 46	·01418			
3. 56	6. 0	11. 12	·1047					
4. 30	12. 50	11. 50	·1041					
7. 12	11. 0	12. 10	·1062					
7. 40	0. 50	13. 13	·1042					
8. 25	9. 50	15. 47	·1047					
	***	17. 23	·1052					
11. 30	8. 20	22. 45	·1046					
12. 0	4. 30							
12. 10	8. 20							
13. 8	8. 30							
13. 20	6. 30							
14. 50	12. 20							
15. 42	10. 0							
16. 15	10. 0							
16. 30	12. 50							
	***							
18. 54	10. 20							
	***							
22. 45	10. 20							
	***							
Nov.28		Nov.28		Nov.28				
2. 30	22. 15. 30	0. 0	·1061	0. 0	·01427	10. 14	51 ·0	54 ·0
	***	7. 43	·1069	3. 0:	·01400	21. 45	46 ·5	52 ·0
4. 48	10. 15	10. 26	·1059	11. 0:	·01015			
	***	10. 57	·1069	18. 47	·01402			
10. 30	10. 30	11. 46	·1073	21. 52	·01370			
11. 36	6. 30	12. 33	·1060		·01174			
12. 10	10. 40	16. 30	·1055	22. 10	·01154			
12. 42	10. 0	16. 41	·1062	23. 50	·01230			
16. 55	12. 15	20. 0	·1057					
22. 12	10. 0	22. 49	·1061					
23. 59	12. 30							
Nov. 29		Nov.29		Nov.29				
1. 5	22. 16. 0	0. 10	·1047	1. 0	·01271	1. 40	47 ·5	51 ·5
4. 37	12. 30		***	2. 48	·01260	3. 40	50 ·0	54 ·0
10. 44	12. 0	2. 7	·1039	7. 0	·00790	9. 40	51 ·0	53 ·3
11. 47	10. 30	7. 48	·1049	10. 3	·00752	21. 40	47 ·0	49 ·5
16. 10	13. 0	12. 17	·1047	11. 30:	·00772			
22. 38	12. 0	18. 45	·1060	23. 15	·01325			
		21. 43	·1057					
		22. 10	·1049					
		22. 20	·1054					
		23. 59	·1040					
Nov.30		Nov.30		Nov.30				
0. 0	22. 14. 20	0. 30	·1036	1. 0	·01330	1. 40	49 ·0	51 ·0
1. 10	14. 30	4. 44	·1037	4. 17	·00867	3. 40	52 ·0	54 ·5
9. 15	10. 30	5. 30	·1044	10. 3	·00796	9. 48	53 ·0	55 ·3

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 30		Nov. 30		Nov. 30				
h m	° ′ ″	h m		h m		h m	°	°
10. 12	22. 8. 35	9. 17	·1047	12. 30:	·00844	21. 40	44 ·0	47 ·0
10. 35	10. 0	9. 21	·1057	19. 55	·01291			
11. 5	7. 10	9. 45	·1049	22. 30	·01263			
11. 24	9. 10	10. 24	·1052	23. 52	·01338			
12. 6	6. 0	10. 39	·1040					
12. 30	11. 30		***					
12. 47	9. 30	11. 40	·1039					
14. 48	11. 0	12. 13	·1063					
15. 30:	17. 35	12. 33	·1045					
16. 0	12. 0	14. 53	·1053					
	***		***					
17. 23	12. 0	16. 0	·1077					
18. 45:	21. 30		***					
19. 22	14. 30	18. 24	·1059					
	***	19. 25	·1085					
20. 27	19. 0		***					
	***	23. 0	·1025					
21. 22	14. 55		***					
21. 52	16. 0	23. 57	·1020					
	***							
22. 31	14. 0							
23. 59	18. 0							
Dec. 1		Dec. 1		Dec. 1				
0. 2	22. 19. 0	0. 34	·1020	1. 0	·01393	1. 40	48 ·5	52 ·5
0. 22	20. 35		***	1. 57	·01341	3. 40	51 ·5	53 ·8
0. 46	17. 14	1. 34	·1027	4. 20	·00960	9. 40	54 ·0	56 ·0
	***	2. 8	·1014	11. 0	·00868	21. 40	52 ·0	55 ·0
1. 32	20. 5		***	16. 0	·00880			
	***	3. 16	·1026	21. 41	{ ·00820			
3. 2	15. 25	3. 40	·1019		{ ·00992			
	***	5. 18	·1038	23. 30	·01095			
3. 16	17. 15	8. 3	·1036					
	***	8. 33	·1029					
5. 25	10. 25	12. 0	·1043					
8. 13	10. 0	12. 55	·1038					
8. 36	7. 45	13. 36	·1045					
8. 57	11. 0	18. 22	·1044					
9. 10	9. 23	19. 11	·1055					
9. 48	10. 20	21. 53	·1040					
10. 22	8. 25	22. 28	·1028					
	***	23. 28	·1027					
23. 37	14. 55							
	***							
Dec. 2		Dec. 2		Dec. 2				
0. 0	22. 13. 30	0. 22	·1025	1. 0	·01112	1. 40	54 ·0	57 ·0
	***		***	2. 30	·01020	3. 40	56 ·0	57 ·5
0. 30	18. 0	1. 40	·1017	3. 29	{ ·01040	9. 40	55 ·0	57 ·5
	***	2. 58	·1034		{ ·01189	21. 40	49 ·0	53 ·0
1. 22	19. 40	3. 15	·1025	3. 51	·01154			
	***	3. 36	·1034	4. 30	·01260			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 2		Dec. 2		Dec. 2				
h m	° ′ ″	h m		h m		h m	°	°
2. 6	22. 14. 0	4. 4	·0988	11. 0:	·01320			
	***		***	16. 30	·01505			
3. 39	20. 18	5. 0	·1029	22. 1	·01428			
4. 10	7. 0		***	23. 30	·01465			
4. 14	8. 25	6. 28	·1016					
4. 29	4. 25	7. 3	·1032					
5. 5	14. 30	9. 25	·1040					
5. 30	12. 0	11. 0	·1030					
6. 25	18. 30	14. 34	·1046					
6. 43	14. 0	17. 56	·1049					
	***	18. 24	·1056					
9. 3	10. 10	19. 26	·1042					
9. 30	11. 30	19. 42	·1050					
	***	20. 6	·1040					
11. 3	8. 30	20. 16	·1044					
	***	21. 37	·1034					
12. 43	11. 55	23. 0	·1030					
13. 51	10. 20	23. 59	·1014					
17. 30	11. 5							
18. 15	18. 30							
18. 43	16. 35							
19. 44	26. 55							
	***							
22. 10	15. 8							
	***							
22. 38	16. 30							
	***							
Dec. 3		Dec. 3		Dec. 3				
0. 18	22. 21. 0	0. 56	·1002	1. 30	·01470	1. 40	51 ·0	55 ·5
	***	1. 30	·0999	4. 11	·01014	3. 40	55 ·0	57 ·5
1. 5	18. 25		***	5. 40	{ ·01015	9. 40	55 ·3	57 ·5
	***	3. 10	·1029		{ ·01165	21. 40	53 ·6	56 ·5
2. 3	17. 40	5. 45	·1040	6 40	·01111			
	***	9. 24	·1042	11. 2	·01160			
3. 34	10. 45	10. 18	·1031	11. 17	·01122			
	***	10. 40	·1046	12. 57:	·01150			
9. 52	11. 55	10. 58	·1030	21. 51	·01359			
10. 18	22. 9. 40	11. 8:	·1046	23. 28	·01358			
10. 38	21. 59. 30	11. 20	·1038					
10. 53	22. 1. 0	11. 30	·1065					
11. 8	22. 11. 8	11. 52	·1045					
11. 25	21. 55. 40	12. 28	·1030					
12. 24	22. 9. 0		***					
16. 12	14. 40	13. 28	·1038					
17. 11	9. 30	15. 42	·1040					
23. 59	11. 20	17. 0	·1050					
		22. 12	·1046					
		23. 38	·1038					
Dec. 4		Dec. 4		Dec. 4				
0. 30	22. 11. 30	0. 30	·1034	1. 0	·01318	1. 40	56 ·5	59 ·5
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 4		Dec. 4		Dec. 4				
h m	° ′ ″	h m		h m		h m	°	°
7. 39	22. 14. 20	4. 29	·1032	3. 42	·01045	3. 40	58 ·5	60 ·5
8. 0	9. 0	5. 33	·1038		·01271	9. 40	59 ·0	62 ·0
8. 8	11. 40	6. 20:	·1017	6. 0	·01075	23. 50	57 ·0	58 ·0
8. 10	8. 30	7. 10	·1022	7. 58	·01075			
8. 11	13. 5	7. 36	·1010	8. 20	·01026			
8. 17	8. 8		***	10. 9	·01060			
8. 20	10. 30	8. 10	·1042	12. 0	·01049			
8. 33	2. 0		***	16. 0	·01091			
8. 43	8. 20	8. 27	·1024	20. 0	·01240			
8. 53	3. 55	8. 32	·1037	23. 7	·01263			
9. 2:	7. 45		***					
9. 23	5. 0	9. 3	·1001					
9. 30	8. 0	9. 26:	·1019					
16. 23	12. 10	9. 38	·1014					
17. 30	13. 0	10. 28	·1027					
18. 22	9. 45	11. 38	·1033					
22. 20	9. 55	16. 27	·1034					
23. 23	12. 5	18. 15	·1044					
	***	22. 15	·1032					
		23. 24	·1030					
Dec. 5		Dec. 5		Dec. 5				
0. 0	22. 12. 35	0. 0	·1030	1. 0	·01280	4. 40	58 ·0	59 ·5
	***		***	5. 0	·01200	9. 50	58 ·5	60 ·0
1. 55	15. 0	2. 30	·1035	7. 57	·01026	21. 40	58 ·0	59 ·5
	***	4. 15:	·1032	11. 0	·01023			
5. 52	8. 0	4. 34:	·1034	14. 0	·01000			
6. 18	10. 10	4. 58:	·1030	16. 0	·01040			
6. 42	9. 0	5. 19:	·1036	19. 0	·01115			
7. 7	11. 0	5. 44:	·1032	22. 0	·01075			
	***	6. 6:	·1039	23. 15	·01115			
9. 38	10. 30	6. 36:	·1038					
	***	7. 0	·1043					
10. 15	8. 30	9. 22	·1042					
	***	9. 32:	·1060					
12. 0	10. 20	9. 45:	·1049					
12. 15	8. 20		***					
	***	12. 13	·1051					
13. 45	9. 0	12. 24	·1043					
	***		***					
15. 8	4. 0	14. 18	·1040					
	***	14. 55	·1049					
18. 13	11. 20		***					
23. 30	13. 0	15. 55	·1034					
			***					
		19. 42	·1047					
		20. 8	·1052					
		22. 25	·1043					
		23. 30	·1038					
Dec. 6		Dec. 6		Dec. 6				
0. 0	22. 13. 0	0. 0	·1039	1. 0	·01150	1. 40	59 ·0	61 ·0
					***			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 6		Dec. 6		Dec. 6				
h m	° ′ ″	h m		h m		h m	°	°
0. 29	22. 13. 0	0. 18	·1031	2. 25	·01081	3. 40	58 ·8	62 ·5
0. 32	9. 30	0. 38	·1055		***	9. 40	57 ·5	62 ·5
0. 35	15. 55		***	3. 30	·01000	21. 40	53 ·0	57 ·2
1. 0	16. 20	1. 24	·1039		***			
1. 24	13. 35	1. 36	·1055	5. 9	·01058			
1. 32	16. 35	1. 50	·1041		·01289			
1. 47	15. 10	2. 12	·1059	7. 0:	·01222			
	***	2. 53	·1045	15. 21	·01604			
2. 15	21. 40	3. 5	·1057	21. 48	·01563			
2. 48	14. 5	3. 27	·1044	23. 14	·01570			
3. 12	19. 5	3. 34	·1054					
3. 18	17. 0	3. 42	·1044					
4. 10	14. 20	3. 55	·1052					
	***	4. 3	·1036					
5. 47	18. 30	4. 24	·1050					
	***		***					
6. 8	16. 0	4. 32	·1028					
	***		***					
9. 55	22. 11. 30	4. 58	·1055					
10. 23	21. 59. 10		***					
11. 0	22. 7. 55	5. 12	·1044					
12. 0	11. 8	5. 30	·1057					
16. 30	12. 30	5. 34	·1048					
21. 55	11. 20	5. 42	·1058					
23. 35	13. 0		***					
		5. 58	·1040					
			***					
		6. 55	·1050					
		7. 4	·1040					
		7. 15	·1044					
			***					
		7. 58	·1040					
		8. 2	·1052					
		8. 30	·1037					
		9. 56	·1036					
		10. 40	·1036					
		11. 10	·1029					
		16. 40	·1048					
		21. 55	·1047					
Dec. 7		Dec. 7		Dec. 7				
0. 10	22. 14. 30	0. 7	·1037	1. 0	·01568	1. 40	55 ·2	58 ·0
	***	1. 17	·1028	9. 48	·01005	3. 40	56 ·5	58 ·5
1. 19	13. 20	3. 29	·1036	11. 30:	·01001	9. 45	56 ·0	59 ·0
	***	4. 55	·1026	23. 30	·01500	21. 40	54 ·0	57 ·5
2. 45	15. 50		***					
	***	5. 40	·1035					
4. 55	11. 40	6. 30	·1029					
	***	6. 44	·1040					
5. 50	15. 20		***					
	***	8. 15	·1024					
6. 34	12. 20		***					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Dec. 7	
h m	° ′ ″
7. 0	22. 16. 25
	***
8. 36	11. 0
	***
14. 41	14. 0
15. 15	11. 0
	***
23. 50	14. 0
Dec. 8	
1. 0	22. 14. 35
1. 23	17. 5
3. 40	12. 45
	***
5. 45	12. 30
7. 0	18. 55
8. 5	13. 0
8. 15	16. 0
8. 25	15. 0
8. 35	17. 40
8. 45	14. 50
10. 0	22. 7. 30
10. 10	21. 59. 5
10. 22	22. 8. 10
10. 28	5. 10
	***
11. 10	5. 12
12. 45	12. 0
13. 10:	9. 5
14. 3	17. 0
14. 20	14. 20
	***
21. 0	11. 0
	***
23. 59	16. 5
Dec. 9	
0. 15	22. 17. 0
3. 15	16. 35
5. 0	12. 15
5. 43	15. 0
6. 18	11. 45
8. 17	22. 12. 35
8. 51	21. 56. 20
9. 25	22. 8. 25
10. 15	6. 30
11. 12	8. 35
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Dec. 7	
h m	
10. 37	·1038
11. 2	·1048
11. 14	·1041
12. 3	·1040
12. 27	·1038
12. 54	·1044
13. 22	·1040
19 18	·1046
21. 0	·1043
21. 29	·1049
23. 0	·1042
23. 30	·1045
Dec. 8	
0. 0	·1042
2. 34	·1030
	***
7. 16	·1036
7. 26	·1041
	***
8. 45	·1032
9. 3	·1017
	***
9. 55	·1026
10. 8	·1060
10. 26	·1020
10 45	·1033
11. 0	·1033
	***
17. 42	·1044
18. 23	·1050
	***
22. 0	·1049
22. 50	·1040
23. 30:	·1018
Dec. 9	
0. 0	·1022
0. 40	·1026
1. 23	·1022
2. 42	·1020
4. 23	·1018
5. 5:	·1028
5. 45	·1025
6. 50	·1035
7. 30	·1029
8. 10	·1030
8. 38	·1012

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Dec. 8	
1. 0	·01526
3. 0:	·01420
7. 24:	·00964
9. 59	·01110
10. 16:	·01096
14. 43	·01502
21. 52	·01439
23. 14	·01435
Dec. 9	
1. 30	·01452
5. 0	·00960
9. 40	·00912
14. 0	·00889
21. 43	·00940
23. 30	·00981

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	55 ·5	57 ·5
3. 40	57 ·0	58 ·5
9. 40	56 ·5	57 ·5
21. 40	50 ·0	54 ·0
1. 40	53 ·0	56 ·0
3. 40	57 ·0	59 ·8
9. 40	55 ·0	57 ·0
21. 40	55 ·8	57 ·2

Göttingen Mean Solar Time.	Western Declination.
Dec. 9	
h m	° ′ ″
12. 10	22. 6. 10
14. 25	13. 25
	***
15. 55	12. 0
	***
17. 12	10. 55
18. 33	23. 25
18. 50	24. 25
	***
19. 37	14. 10
	***
21. 12	10. 40
	***
22. 14	12. 15
	***
23. 35	17. 2
	***
23. 59	15. 20
	***
Dec. 10	
0. 32	22. 14. 0
0. 45	15. 40
0. 57	13. 10
1. 35	18. 0
1. 46	16. 30
1. 55	20. 40
2. 32	14. 5
2. 44	12. 30
6. 22	22. 11. 0
7. 2	21. 58. 0
7. 36	22. 10. 0
	***
8. 40	22. 11. 30
9. 12	21. 49. 5
9. 27	22. 4 40
10. 0	22. 9. 30
10. 20	21. 59. 25
11. 0	22. 9. 50
12. 6	10. 0
12. 25	12. 30
12. 48	10. 10
13. 32	12. 0
13. 47	19. 20
	***
14. 37	11. 10
	***
15. 50	20. 30
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Dec. 9	
h m	
9. 8	·1038
	***
9. 58	·1028
11. 25	·1023
11. 50	·1031
12. 35	·1028
	***
15. 0	·1042
	***
17. 25	·1053
	***
18. 25	·1030
	***
18. 57	·1036
19. 9	·1052
	***
19. 42	·1033
	***
22. 6	·1030
	***
23. 44	·1008
	***
23. 59	·1016
Dec. 10	
0. 42	·1020
	***
1. 36	·1025
2. 8	·0967
	***
2. 52	·1016
3. 18	·1029
	***
4. 30	·1033
6. 8	·1028
6. 45	·1002
7. 24	·1026
	***
8. 30	·1025
8. 44	·1014
8. 56	·1017
9. 16	·1077
	***
10. 7	·1008
10. 27	·1016
10. 42	·1012
11. 10	·1026
12. 36	·1023
13. 0	·1031
13. 18	·1029
13. 39	·1042
14. 5	·1030
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Dec. 10	
1. 0	·00961
2. 7	·00980
2. 19	·01052
4. 0	·01012
8. 7	·01000
	·01259
9. 0	·01230
9. 15	·01242
10. 3	·01174
14. 0	·01180
16. 0:	·01185
23. 9	·01472

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	57 ·0	59 ·0
3. 40	58 ·0	60 ·0
9. 40	49 ·0	54 ·0
21. 40	55 ·0	56 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 10		Dec. 10						
h m	° ′ ″	h m		h m		h m	°	°
16. 54	22. 10. 10	15. 45	·1042					
	***	16. 0	·1035					
			***					
17. 15	13. 20							
	***	17. 18	·1045					
			***					
20. 39	12. 30							
	***	19. 56	·1028					
21. 18	16. 0	20. 10	·1034					
	***	22. 0	·1020					
23. 59	15. 35	22. 8	·1027					
	***	22. 17	·1016					
			***					
		23. 45	·1023					
		23. 59	·1022					
Dec. 11		Dec. 11		Dec. 11				
0. 30	22. 14. 40	0. 55	·1027	0. 0	·01276	1. 40	58 ·5	58 ·5
1. 12	16. 30	1. 25	·1020	3. 45	·01051	3. 40	59 ·0	59 ·0
2. 58	10. 10	3. 15	·1025	5. 0	·01161	9. 40	58 ·5	58 ·5
	***	3. 30	·1010	6. 11	·01112	23. 40	54 ·0	55 ·5
3. 23	15. 20	3. 36	·1019	6. 27	·01278			
	***	3. 46	·1014	9. 0:	·01326			
4. 7	2. 25	4. 16:	·1038	14. 0	·01570			
	***	5. 42	·1014	23. 0	·01539			
4. 51	10. 25		***					
5. 3	4. 35	8. 42	·1034					
5. 20	13. 0	9. 8	·1018					
	***	9. 46	·1072					
8. 14	8. 50	10. 6	·1045					
	***	11. 10	·1032					
8. 45	22. 11. 35	12. 15	·1037					
9. 38	21. 57. 30	13. 0	·1026					
10. 0	22. 5. 0	14. 33	·1036					
10. 12	3. 30	14. 41	·1031					
10 30	6. 25	15. 0	·1038					
11. 12	3. 20	17. 27	·1042					
12. 17	14. 5	18. 25	·1048					
12. 32	11. 30	19. 12	·1036					
	***	20. 0	·1046					
13. 18	14. 20		***					
13. 32	18. 30	22. 22	·1024					
14. 28	13. 10	23. 0	·1037					
15. 20	17. 0	23. 43	·1027					
	***							
16. 30	12. 5							
	***							
19. 55	13. 0							
20 30	15. 55							
	***							
21. 16	12. 10							
	***							
23. 59	15. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 12		Dec. 12		Dec. 12				
h m	° ′ ″	h m		h				
0. 30	22. 14. 0	0. 0	·1030	1. 0	·01561	9. 40	56 ·2	58 ·0
	***	0. 27	·1026	10. 50	·01180	21. 40	54 ·8	57 ·3
1. 24	16. 25		***	10. 58	·01182			
	***	1. 42	·1039	15. 0	·00960			
2. 18	12. 40		***	19. 0	·01052			
	***	4. 59	·1028	23. 30	·01151			
3. 30	16. 20	5. 21	·1050					
	***	7. 17	·1043					
4. 45	22. 8. 50	7. 38	·1033					
5. 16	21. 57. 0	8. 22	·1032					
6. 8	22. 9. 0	8. 40	·1044					
7. 58	22. 11. 0	9. 3	·1034					
9. 17	21. 58. 30	9. 15	·1042					
10. 20	22. 9. 55	9. 50	·1034					
10. 54	6. 0	10. 30	·1040					
11. 8	12. 50		***					
11. 24	6. 30	11. 5	·1033					
11. 41	10. 0	11. 24	·1044					
	***		***					
12. 23	7. 55	12. 15	·1037					
12. 40:	9. 50		***					
13. 8	5. 30	12. 55	·1048					
13. 50	6. 25	14. 0	·1034					
14. 11	12. 30	16. 30	·1048					
	***	16. 55	·1043					
17. 47	13. 20	17. 30:	·1052					
	***	18. 30:	·1045					
18. 21:	17. 8	19. 30:	·1054					
	***	20. 47	·1028					
19. 16	12. 40		***					
	***	21. 7	·1034					
20. 8	15. 20	21. 28	·1023					
	***	21. 50	·1033					
21. 18	10. 30	22. 30	·1033					
	***		***					
21. 50	15. 0	22. 40	·1052					
	***	22. 58	·1055					
22. 10	12. 20	23. 32	·1030					
	***		***					
23. 14	12. 30	23. 55	·1028					
23. 28	17. 0							
23. 55	13. 8							
Dec. 13		Dec. 13		Dec. 13				
0. 11	22. 14. 10	0. 48	·1022	1. 0	·01170	1. 40	56 ·0	58 ·0
	***	0. 54	·1024	3. 53	·01023	3. 40	58 ·0	59 ·0
0. 57	13. 30		***		***	9. 40	59 ·0	59 ·0
	***	1. 34	·1039	5. 20	·01080	21. 40	55 ·0	57 ·0
2. 25	16. 30		***	13. 12:	·00936			
	***	2. 13	·1038	23. 30	·01430			
3. 2	12. 40		***					
3. 21	15. 20	2. 42	·1020					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 13		Dec. 13						
h m	° ′ ″	h m		h m		h m	°	°
3. 48	22. 14. 30	3. 20	·1021					
			***					
4. 12	10. 0							
4. 34	12. 50	3. 58	·1000					
			***					
4. 42	10. 30							
4. 57	22. 14. 0	4. 50	·1026					
5. 17	21. 55. 20	4. 58	·1005					
5. 40	22. 8. 30	5. 34	·1060					
6. 11	11. 30	5. 45	·1032					
			***					
6. 26	10. 0							
6. 47	0. 25	6. 48	·1025					
7. 9	10. 30	7. 3	·1052					
7. 18	5. 0	7. 24	·1022					
7. 27	9. 5	7. 32	·1037					
7. 43	7. 20	7. 45	·1021					
	***		***					
8. 21	10. 25	8. 47	·1028					
			***					
8. 54	7. 30							
9. 2	11. 0	9. 5	·1047					
9. 39	5. 5	9. 18	·1031					
			***					
9. 54	9. 25							
10. 1	7. 50	9. 40	·1029					
	***	9. 54	·1052					
			***					
10. 43	14. 5							
11. 11	9. 0	11. 3	·1017					
	***		***					
12. 18	9. 30	11. 40	·1028					
12. 53	12. 40	11. 50	·1036					
13. 7	7. 10	12. 17	·1038					
	***	12. 40	·1060					
14. 0	12. 10	13. 2	·1046					
14. 27	6. 35	13. 32	·1062					
15. 7	7. 30	14. 0	·1044					
16. 5	15. 30	14. 25	·1049					
	***	15. 30	·1029					
17. 30	14. 20	17. 36	·1045					
	***	18. 17	·1038					
			***					
19. 33	20. 0							
	***	18. 57	·1048					
			***					
22. 5	12. 0							
	***	19. 45	·1042					
22. 32	14. 0	20. 20	·1048					
	***		***					
23. 12	10. 30	21. 55	·1032					
	***		***					
23. 38	15. 30	22. 8	·1037					
	***		***					
23. 52	13. 30	23. 3	·1017					
	***		***					
		23. 30	·1030					
			***					
		23. 56	·1019					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 14		Dec. 14		Dec. 14				
h m	° ′ ″	h m		h m		h m	°	°
0. 30	22. 11. 35	0. 23	·1000	1. 0	·01430	1. 40	57 ·0	59 ·0
	***	0. 47	·1008	4. 0	·01090	3. 40	60 ·0	62 ·5
1. 30	15. 40	1. 47	·1000	5. 38	·01092	9. 40	59 ·8	60 ·5
	***	3. 34	·1004		·01315	21. 40	53 ·0	56 ·5
1. 52	14. 30	4. 2	·1009	6. 43:	·01255			
3. 29	13. 0	4. 18	·0990	14. 14	·01621			
3. 47	10. 25	4. 29	·1006	23. 30	·01585			
4. 11	12. 10	4. 45	·1000					
4. 22	8. 20	4. 59	·1016					
	***		***					
4. 50	5. 30	6. 22	·1012					
	***	6. 32	·1022					
			***					
5. 8	11. 0							
	***	7. 8	·1024					
5. 37	8. 0	8. 33	·1012					
	***	9. 6	·1040					
6. 7	10. 55	9. 24	·1018					
6. 25	5. 30	9. 38	·1030					
6. 35	8. 20	10. 13	·1020					
6. 49	6. 30	10. 30	·1025					
7. 22	11. 20	11. 37	·1020					
8. 18	10. 20	12. 18	·1032					
8. 40	3. 55	12. 58	·1021					
8. 48	6. 20	19. 13	·1030					
8. 57	2. 45	20. 30	·1042					
9. 15	9. 20	22. 30	·1025					
9. 30	6. 45	23. 18	·1028					
9. 40	9. 25							
	***							
11. 7	9. 5							
	***							
11. 50	6. 5							
	***							
12. 29	9. 0							
12. 43	7. 25							
12. 55	10. 55							
14. 30	9. 50							
15. 30	14. 8							
19. 15	11. 20							
22. 36	10. 50							
23. 35	12. 35							
Dec. 15		Dec. 15		Dec. 15				
0. 0	22. 13. 20	0. 15	·1028	1. 0	·01570	1. 40	55 ·4	58 ·0
2. 22	15. 0	0. 24	·1018	8. 30:	·01030	3. 40	57 ·5	60 ·0
	***	2. 18	·1018	17. 1	·01515	9. 40	57 ·0	57 ·5
9. 34	10. 30	2. 55	·1023	23. 30	·01390	21. 40	50 ·0	52 ·8
	***	10. 40	·1029					
11. 56	6. 50	11. 8	·1039					
	***	12. 8	·1027					
14. 45	12. 30	14. 10	·1029					
	***	15. 34	·1033					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
Dec. 15	
h m	° ′ ″
21. 41	22. 10. 30
23. 59	12. 20
Dec. 16	
1. 30	22. 14. 0
4. 11	10. 40
12. 30	11. 0
23. 2	10. 55
23. 50	12. 7
Dec. 17	
0. 30	22. 12. 20
7. 15	12. 35
11. 18	8. 0
11. 30	9. 25
12. 46	8. 30
13. 8	3. 30
13. 21	6. 0
	***
13. 47	3. 55
	***
14. 14	6. 0
	***
16. 11	1. 50
	***
17. 34	7. 30
17. 36	5. 20
	***
20. 50	12. 50
	***
22. 12	11. 55
	***
23. 11	15. 30
	***
23. 43	12. 0
23. 54	15. 15
Dec. 18	
0. 30	22. 13. 10
2. 20	13. 20
2. 40	14. 55
3. 7	12. 0
4. 2	14. 35
5. 42	9. 30
6. 12	13. 30
6. 43	13. 50

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Dec. 15	
h m	
19. 0	·1045
21. 48	·1039
23. 18	·1034
Dec. 16	
0. 0	·1027
0. 34	·1021
2. 34	·1016
9. 54	·1037
20. 6	·1046
23. 54	·1026
Dec. 17	
0. 0	·1018
1. 30	·1019
8. 30	·1034
	***
11. 24	·1030
12. 17	·1028
13. 8	·1044
15. 20	·1033
15. 47	·1042
17. 30	·1033
18. 48	·1046
	***
20. 18	·1036
20. 30	·1040
23. 27	·1020
23. 40	·1020
Dec. 18	
0. 18	·1020
1. 0	·1022
3. 14	·1012
4. 0:	·1014
4. 15	·1004
4. 27:	·1013
4. 37	·0997
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Dec. 16	
h m	
1. 0	·01475
2. 9	·01418
4. 51	·00918
9. 0	·00862
12. 0	·00933
16. 0	·00910
20. 30	·00985
23. 30	·01080
Dec. 17	
1. 0	·01090
3. 16	·00880
5. 58	·00928
	·01152
11. 0	·01103
16. 8	·00999
23. 52	·01475
Dec. 18	
1. 0	·01540
2. 42	·01570
7. 30	·01238
	·01428
8. 50	·01410
9. 9	·01443
12. 0	·01425
13. 0	·01400

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	52 ·0	55 ·0
3. 40	54 ·8	57 ·5
9. 40	55 ·8	57 ·0
21. 40	54 ·0	54 ·5
1. 40	55 ·0	56 ·0
3. 40	57 ·0	59 ·0
9. 0	55 ·5	57 ·5
21. 40	52 ·0	55 ·0
1. 40	53 ·2	55 ·0
3. 40	54 ·5	56 ·8
9. 40	55 ·2	58 ·0
22. 40	52 ·5	53 ·5

Göttingen Mean Solar Time.	Western Declination.
Dec. 18	
h m	° ′ ″
7. 29	22. 6. 25
7. 58:	8. 25
8. 20	5. 0
8. 36	22. 13. 0
9. 2	21. 45. 35
10. 0	22. 8. 30
	***
11. 57	8. 0
12. 18	15. 35
13. 38	6. 50
13. 50	8. 50
14. 17	8. 0
15. 0	13. 0
	***
15. 45	14. 10
16. 22	8. 0
16. 36	12. 0
16. 54	6. 20
17. 20	12. 25
19. 0	9. 30
19. 22	11. 30
21. 37	10. 30
22. 57	14. 0
23. 32	10. 0
23. 58	15. 0
Dec. 19	
0. 36	22. 13. 25
3. 0	16. 0
5. 4	11. 55
6. 8	13. 25
6. 51	7. 45
7. 50	12. 30
8. 50	9. 50
9. 6	11. 0
	***
12. 32	12. 0
13. 13	7. 0
15. 0	10. 0
20. 30	10. 40
21. 30	12. 10
22. 55	10. 10
23. 59	12. 30
Dec. 20	
1. 0	22. 12. 40
6. 18	9. 40
6. 45	12. 20
7. 38	10. 25
9. 22	12 10

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Dec. 18	
h m	
5. 57	·1026
7. 0:	·1012
7. 30	·1021
7. 50	·1011
	***
8. 25:	·1014
8. 47	·0985
9. 9	·1034
	***
10. 4	·1008
10. 39	·1020
	***
12. 12	·1027
12. 36	·1019
12. 52	·1029
	***
14. 50	·1018
16. 36:	·1032
21. 44	·1035
22. 30	·1022
22. 36	·1029
23. 15	·1027
23. 45	·1036
Dec. 19	
1. 0	·1028
3. 43	·1028
5. 50	·1035
6. 24	·1024
7. 26	·1035
10. 0	·1037
	***
11. 47	·1032
	***
13. 36	·1034
14. 0	·1040
15. 30	·1037
19. 15	·1045
20. 45	·1038
22. 0	·1040
23. 35	·1032
Dec. 20	
0. 0	·1033
1. 12	·1030
	***
2. 50	·1036
2. 55	·1023

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Dec. 18	
h m	
16. 14	·01532
22. 30	·01514
Dec. 19	
0. 0:	·01540
14. 30:	·00960
23. 30	·01529
Dec. 20	
1. 0	·01320
4. 10	·00985
5. 3	·01039
6. 7	·01015
6. 12	·01144

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
8. 40	54 ·0	57 ·5
21. 40	52 ·0	55 ·0
1. 40	55 ·0	57 ·0
3. 40	57 ·5	58 ·0
9. 40	58 ·5	59 ·5
21. 40	52 ·5	55 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Dec. 20 h m	° ′ ″
10. 19	22. 10. 40
10. 36	5. 0
10. 50	5. 55
11. 1	3. 36
11. 30:	7. 45
11. 57	5. 0
	***
13. 20	10. 20
14. 10	6. 30
15. 57	12. 50
21. 47	10. 0
23. 59	12. 0
Dec. 21	
0. 42	22. 13. 0
4. 30	10. 20
10. 13	11. 30
11. 0	9. 25
20. 45	11. 30
23. 59	12. 0
Dec. 22	
1. 15	22. 12. 35
4. 58	11. 0
9. 20	22. 12. 0
9. 58	21. 55. 0
	***
11. 15	22. 9. 0
	***
12. 12	9. 0
12. 32	11. 25
13. 3	9 30
13. 18	10. 30
13. 55	4 20
14. 10	8. 40
16. 0	11. 30
	***
18. 30	12. 20
18. 54	15. 10
	***
20. 55	11. 30
	***
21. 42	9. 50
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Dec. 20 h m	
7. 24	·1027
10. 15	·1029
10. 28	·1022
10. 45	·1030
11. 3	·1048
	***
11. 54	·1020
13. 8	·1028
13. 33	·1024
14. 0	·1034
15. 10	·1032
18. 30	·1043
18. 45	·1041
21. 45	·1043
23. 27	·1042
23. 59	·1033
Dec. 21	
0. 8	·1033
1. 19	·1025
7. 0	·1036
10. 34:	·1032
18. 6	·1050
22. 32	·1045
23. 16:	·1037
Dec. 22	
0. 0	·1040
0. 45	·1032
4. 30	·1030
	***
7. 30	·1045
9. 43:	·1027
10. 2	·1035
10. 56:	·1017
11. 43	·1029
	***
13. 27	·1022
13. 55	·1050
15. 0	·1034
	***
17. 24	·1046
18. 45	·1038
20. 0	·1043
	***
22. 30	·1038
23. 13	·1030

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Dec. 20 h m	
6. 30:	·01135
9. 0	·01320
10. 0	·01329
11. 0:	·01436
16. 16	·01623
21. 47	·01550
23. 30	·01450
Dec. 21	
1. 0	·01540
2. 0	·01526
7. 0	·00892
8. 28	·00898
8. 31:	·01072
18. 57:	·01540
22. 31	·01508
	·01485
Dec. 22	
1. 0	·01537
7. 13	·00904
11. 0	·00925
14. 30:	·00917
23. 57	·01360

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	54 ·0	56 ·5
3. 40	56 ·5	57 ·5
9. 40	56 ·0	58 ·0
21. 40	51 ·0	54 ·0
1. 40	53 ·5	57 ·0
3. 40	55 ·5	58 ·0
9. 40	55 ·0	57 ·0
21. 40	52 ·0	55 ·5

Göttingen Mean Solar Time.	Western Declination.
Dec. 22 h m	° ′ ″
23. 59	22. 11. 20
Dec. 23	
0. 15	22. 13. 10
0. 58	11. 0
1. 31	14. 45
1. 49	12. 30
	***
5. 4	14. 0
5. 27	16. 20
5. 55	14. 5
6. 41	17. 50
8. 0	14. 0
8. 39	15. 0
9. 10	7. 0
9. 17	9. 20
9. 39	3. 55
10. 38:	11. 30
11. 39	6. 30
	***
12. 12	8. 0
12. 37	5. 30
12. 51	22. 9. 0
13. 25	21. 40. 50
13. 47	48. 50
14. 9:	44. 30
14. 48	58. 30
15. 0	21. 57. 0
	***
15. 45	22. 8. 0
	***
16 32	3. 55
17. 11	5. 45
17. 37	12. 10
	***
18. 0	7. 30
	***
18. 37	13. 25
	***
21. 7	11. 20
	***
22. 12	12. 30
	***
22. 32	12. 0
22. 37	10. 0
22. 41	13. 10
22 54	11. 0
22. 55	14. 10
22. 57	11. 10
23. 3	15. 0
23. 11	11. 0
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Dec. 23 h m	
0. 0	·1030
	***
1. 27	·1035
	***
3. 0	1016
	***
3. 42	·1023
4. 32	·1052
5. 4	·1023
	***
6. 4	·1037
8. 12	·1034
8. 55:	·1022
9. 13	·1035
	***
10. 18	·1038
10. 27	·1051
	***
11. 45	·1043
12. 4	·1026
12. 27:	·1035
12. 42	·1060
12. 58	·1030
13. 34	·1073
	***
14. 36	·1018
15. 35	·1029
	***
17. 33	·1021
18. 0	·1032
	***
22. 16	·1038
	***
23. 15	·1030

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Dec. 23 h m	
1. 0	·01350
7. 0:	·01086
11. 30	·01228
13. 2	·01252
13. 37	·01280
14. 15	·01227
19. 30	·01503
21. 0	·01498
	***
23. 15	·01502

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	54 ·0	56 ·5
3. 40	55 ·0	57 ·5
9. 40	53 ·0	56 ·5
21. 40	49 ·5	53 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Magnet. Of V. F.
Dec. 23								
h m	° ′ ″	h m		h m		h m	°	°
23. 58	22. 13. 0 ***							
Dec. 24		Dec. 24		Dec. 24				
0. 22	22. 15. 55 ***	0. 0	·1024	1. 0	·01474	1. 40	53 ·5	56 ·0
		1. 0	·1022	5. 0	·00971	3. 40	56 ·0	58 ·0
1. 0	14. 0	1. 15	·1031	11. 0	·00881	9. 40	57 ·5	59 ·5
1. 11	18. 0	1. 34	·1018	11. 30	·00911	23. 20	57 ·0	59 ·0
1. 25	15. 0		***	11. 48	·00869			
1. 35	17. 0 ***	2. 57	·1012	23. 0	·00893			
		3. 39	·1008					
2. 2	14. 25 ***	6. 4	·1030 ***					
2. 45	17. 30 ***	7. 12	·1019 ***					
3. 7	14. 0 ***	7. 42	·1051 ***					
3. 10	17. 20 ***	8. 23	·1018					
		8. 34	·1027					
3. 54	12. 50 ***	9. 4	·1013					
		9. 42	·1014					
4. 15	14. 10	10. 15	·1030 ***					
4. 40	11. 10							
5. 25	11. 0	11. 10	·1030					
5. 34	11. 30	11. 22	·1022					
6. 45	8. 25	11. 30	·1061					
7. 0	22. 1. 30	12. 0	·1024					
7. 34	21. 48. 30	12. 10	·1031					
8. 15	22. 8. 0 ***	12. 34	·1019 ***					
8. 50	10. 50	17. 55	·1023 ***					
9. 22	4. 20							
10. 2	12. 30	19. 0	·1030 ***					
10. 13	8. 55							
10. 20	12. 0	23. 0	·1026					
10. 55	11. 55							
11. 23	3. 40							
11. 40	17. 0							
12. 7	6. 10							
12. 27	10. 0							
12. 45	9. 0							
13. 11	11. 20							
13. 32	9. 25							
13. 50	11. 20							
14. 7	9. 30 ***							
15. 27	13. 0 ***							
16. 7	10. 20 ***							
16. 45	15. 30 ***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 24								
h m	° ′ ″	h m		h m		h m	°	°
22. 0	22. 11. 0							
23. 59	15. 0							
Dec. 25		Dec. 25		Dec. 25				
0. 20	22. 13. 25	0. 0	·1019 ***	0. 0	·00880	10. 55	55 ·0	58 ·0
0. 33	16. 0 ***			0. 44	·00925	23. 22	51 ·6	55 ·0
		0. 42:	·1014 ***		·01162			
1. 30	13. 0 ***			3. 42	·01193			
		1. 50	·1027 ***	4. 27	·01271			
2. 57	16. 30 ***			9. 0	·01350 ***			
		3. 0	·1017 ***					
4. 12	13. 0			12. 0	·01409			
5. 15	13. 55	4. 15:	·1025	12. 30:	·01390			
8. 31	22. 10. 0	4. 45	·1002	17. 20	·01605 ***			
9. 4	21. 49. 0	5. 40	·1036					
9. 42	22. 3. 0	8. 10	·1028	23. 0	·01539			
9. 58	4. 0	8. 32	·1016					
10. 12	0. 0 ***	9. 4:	·1057					
		9. 20	·1048 ***					
12. 8	10. 10							
12. 20	18. 50	9. 32	·1062 ***					
12. 52	8. 20							
13. 18	9. 40	9. 45	·1044 ***					
13. 45	17. 0							
14. 20	10. 10	11. 50	·1018					
16. 38	14. 0	12. 2	·1034					
17. 5	5. 50	12. 15	·1020 ***					
17. 11	7. 0							
17. 32:	3. 45	14. 0	·1039 ***					
18. 15	12. 55							
19. 52	13. 13	14. 45	·1024					
19. 57	16. 0	18. 30	·1041					
20. 3	14. 30	19. 52	·1034 ***					
20. 32	18. 25							
21. 8	12. 0 ***	21. 0	·1050					
		22. 0	·1038					
22. 7	14. 45 ***	22. 5	·1023					
		22. 14	·1048 ***					
22. 53	11. 10							
23. 58	14. 0	22. 38	·1033					
		23. 45	·1033					
Dec. 26		Dec. 26		Dec. 26				
0. 26	22. 15. 30 ***	0. 27	·1035	1. 0	·01559	10. 58	54 ·0	57 ·0
		3. 33	·1030	6. 30	·01360	21. 47	54 ·0	57 ·0
3. 0	15. 40 ***	5. 34	·1040	9. 50	·01300			
		9. 0	·1035	13. 0	·01380			
5. 3	9. 30 ***	9. 15:	·1045	17. 0	·01347			
		9. 25	·1041	20. 0	·01361			
9. 27	10. 0 ***	9. 37	·1057	22. 0	·01320			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Dec. 26		Dec. 26		Dec. 26				
h m	° ′ ″	h m		h m		h m	°	°
9. 52	22. 7. 0	10. 20	·1033	23. 0	·01271			
	***	10. 33	·1041					
11. 11	11. 30	10. 45	·1034					
12. 15	12. 20	19. 38	·1045					
21. 49	10. 30	23. 59	·1023					
23. 59	12. 30							
Dec. 27		Dec. 27		Dec. 27				
1. 46	22. 5. 3	1. 46	·1026*	1. 0	·01227	1. 46	55 ·0	58 ·0
				5. 15	·00931	3. 40		59 ·0
				9. 0	·00920			
				9. 30	·01092			
				11. 0:	·01111			
				18. 9	·01538			
				23. 10	·01455			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

From Dec. 27 to the end of the year, the adjustments of the Declination and Horizontal Force Magnets were under examination; and from Dec. 28 to the end of the year, those of the Vertical Force Magnet were also under examination.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1852.

The Dipping Needle is described, and the mode of using it is explained, in the *Magnetical and Meteorological Observations*, 1847, Introduction, page xliii, and in the corresponding parts of several preceding Volumes.

The needle A 2 was used till November 10, and A 1 from November 15 to the end of the year.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1852.

Day and Approximate Hour, 1852.		Magnetic Dip.	Day and Approximate Hour, 1852.		Magnetic Dip.	Day and Approximate Hour, 1852.		Magnetic Dip.
	d h	° ′		d h	° ′		d h	° ′
January	4. 21	68. 34 ·00	April	26. 3	68. 46 ·50	August	16. 3	68. 36 ·75
	5. 3	68. 39 ·00		26. 9	68. 50 ·25		16. 9	68. 42 ·50
	5. 9	68. 37 ·50					20. 3	68. 34 ·25
	18. 21	68. 40 ·00	May	2. 21	68. 45 ·50		29. 21	68. 31 ·25
	19. 3	68. 43 ·00		3. 3	68. 43 ·00		30. 3	68. 39 ·50
	19. 9	68. 38 ·25		3. 9	68. 45 ·25		30. 9	68. 41 ·50
	25. 21	68. 41 ·75		9. 21	68. 38 ·25			
	26. 3	68. 42 ·50		10. 3	68. 45 ·25	September	5. 21	68. 39 ·50
	26. 9	68. 39 ·50		10. 9	68. 39 ·25		6. 3	68. 38 ·75
				16. 21	68. 36 ·25		6. 9	68. 44 ·00
February	1. 21	68. 47 ·50		17. 3	68. 36 ·25		12. 21	68. 47 ·75
	2. 3	68. 48 ·75		17. 9	68. 27 ·50		13. 3	68. 37 ·25
	2. 9	68. 43 ·75		23. 21	68. 40 ·00		13. 9	68. 36 ·25
	8. 21	68. 43 ·75		24. 3	68. 46 ·25		19. 21	68. 41 ·75
	9. 3	68. 40 ·50		24. 9	68. 51 ·25		20. 3	68. 54 ·00
	9. 9	68. 36 ·00		30. 21	68. 47 ·50		20. 9	68. 46 ·25
	15. 21	68. 47 ·50		31. 3	68. 38 ·25		26. 21	68. 45 ·75
	16. 3	68. 35 ·50		31. 9	68. 46 ·25		27. 3	68. 46 ·75
	16. 9	68. 41 ·75					27. 9	68. 46 ·25
	22. 21	68. 44 ·25	June	13. 21	68. 42 ·75			
	23. 3	68. 43 ·00		14. 3	68. 39 ·00	October	10. 21	68. 46 ·25
	23. 9	68. 42 ·50		14. 9	68. 38 ·25		11. 3	68. 49 ·00
				20. 21	68. 41 ·75		11. 9	68. 45 ·25
March	0. 21	68. 37 ·50		21. 3	68. 33 ·50		23. 21	68. 45 ·50
	1. 3	68. 40 ·00		21. 9	68. 38 ·25		24. 3	68. 47 ·00
	1. 9	68. 39 ·00		27. 21	68. 42 ·75		24. 9	68. 48 ·25
	7. 21	68. 39 ·25		28. 3	68. 36 ·00		30. 21	68. 45 ·25
	8. 3	68. 40 ·00		28. 9	68. 38 ·00		31. 3	68. 45 ·00
	8. 9	68. 42 ·50					31. 9	68. 46 ·75
	14. 21	68. 39 ·25	July	4. 21	68. 38 ·00			
	15. 3	68. 40 ·50		5. 3	68. 39 ·00	November	7. 21	68. 47 ·75
	15. 9	68. 42 ·50		5. 9	68. 40 ·50		14. 21	68. 41 ·25
	21. 21	68. 44 ·25		11. 21	68. 46 ·75		15. 9	68. 47 ·25
	22. 3	68. 46 ·25		12. 3	68. 37 ·75		21. 21	68. 47 ·25
	22. 9	68. 42 ·50		12. 9	68. 43 ·25		22. 3	68. 45 ·00
	28. 21	68. 43 ·75		18. 21	68. 41 ·00		22. 9	68. 40 ·25
	29. 3	68. 46 ·75		19. 3	68. 39 ·75		28. 21	68. 45 ·75
	29. 9	68. 41 ·25		19. 9	68. 39 ·75		29. 3	68. 38 ·75
				25. 21	68. 39 ·00		29. 9	68. 39 ·50
April	4. 21	68. 42 ·50		26. 3	68. 36 ·25			
	5. 3	68. 46 ·75		26. 9	68. 33 ·00	December	5. 21	68. 48 ·00
	5. 9	68. 44 ·25					6. 3	68. 45 ·50
	11. 21	68. 33 ·75	August	1. 21	68. 36 ·25		6. 9	68. 47 ·50
	12. 3	68. 38 ·75		2. 3	68. 36 ·25		6. 22	68. 52 ·00
	12. 9	68. 44 ·00		2. 9	68. 48 ·25		19. 21	68. 52 ·75
	18. 21	68. 47 ·50		8. 21	68. 44 ·25		20. 3	68. 56. 50
	19. 3	68. 55 ·00		9. 3	68. 41 ·25		20. 9	68. 50 ·50
	19. 9	68. 50 ·00		9. 9	68. 44 ·75		26. 9	68. 46 ·00
	25. 21	68. 47 ·50		15. 21	68. 40 ·00			

February 1d. 21h and 2d. 3h. The observations were made with great care. The morning damp.

February 15d. 21h. The observations were made with great care.

In May, some of the observations are more than usually discordant; this may arise in some degree from want of experience in the observers.

In August, some of the observations were taken by an inexperienced observer.

MEAN MONTHLY MAGNETIC DIP, at the ROYAL OBSERVATORY, GREENWICH, in the Year 1852.

1852, Month.	Mean Monthly Dip at 21h.	Number of Observations.	Mean Monthly Dip at 3h.	Number of Observations.	Mean Monthly Dip at 9h.	Number of Observations.
	° ′		° ′		° ′	
January	68. 38 ·58	3	68. 41 ·50	3	68. 38 ·25	3
February	68. 45 ·74	4	68. 41 ·94	4	68. 41 ·00	4
March	68. 40 ·67	5	68. 42 ·68	5	68. 41 ·48	5
April	68. 42 ·81	4	68. 46 ·75	4	68. 47 ·11	4
May	68. 41 ·50	5	68. 41 ·80	5	68. 41 ·86	5
June	68. 42 ·42	3	68. 36 ·17	3	68. 38 ·17	3
July	68. 41 ·19	4	68. 38 ·19	4	68. 39 ·12	4
August	68. 37 ·64	4	68. 37 ·36	5	68. 44 ·15	4
September	68. 43 ·69	4	68. 44 ·19	4	68. 43 ·19	4
October	68. 45 ·67	3	68. 47 ·00	3	68. 46 ·75	3
November	68. 45 ·50	4	68. 41 ·88	2	68. 42 ·33	3
December	68. 50 ·38	2	68. 51 ·00	2	68. 48 ·00	3
Mean	68. 42 ·98	45	68. 42 ·54	44	68. 42 ·62	45

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1852.

The Apparatus used for observation of the Deflexion of a Magnet is described, and the method of computing the results is explained, in the Greenwich *Magnetical and Meteorological Observations*, 1847, Introduction, page xlv, and in preceding Volumes. The Magnet, marked $\frac{D}{XX}$ (the same which was used in preceding years), has been employed to produce the deflexion of another magnet, marked $\frac{H}{23}$ (of nearly the same dimensions): and the vibrations then observed are those of $\frac{D}{XX}$.

The following is the explanation of the notation used:—

m = the magnetic moment of the deflecting magnet $\frac{D}{XX}$.

X = the absolute measure of horizontal magnetic force.

K = the moment of inertia of $\frac{D}{XX}$ with its stirrup and pulley as suspended for vibration = 3·92866: the unit of length being the English foot, and the unit of weight being the English grain.

T = the time of vibration in seconds of mean solar time.

Then when the natural sine of the observed deflexion (the Deflecting Magnet being in the Lateral Position) is expressed by the formula

$$\frac{a}{(\text{distance})^3} + \frac{b}{(\text{distance})^5}$$

we have for the formulæ of computation

$$\frac{m}{X} = \tfrac{1}{2} a$$

$$m\,X = \frac{\pi^2\,K}{T^2}$$

from which m and X are found.

The natural sine of the observed deflexion when the Deflecting Magnet is in the Axial Position is treated in the same manner as the former, for expressing it by the formula

$$\frac{a_1}{(\text{distance})^3} + \frac{b_1}{(\text{distance})^5}$$

but no further use is made of these deflexions.

For the determination of the Absolute Measure of Horizontal Force on those days on which Vibrations, unaccompanied by Deflexions, were observed: it is assumed that the quantity m (which is peculiar to the magnet) changes at a uniform rate from one observation of deflexion to the next; and the comparison of its interpolated value with the value of $m\,X$ given by the vibration determines the value of X.

Abstract of the Observations of Deflexion of a Magnet for Absolute Measure of Horizontal Force.

Month and Day, 1852.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distance of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibration of Deflecting Magnet.	Number of Vibrations.	Temperature.
		ft. in.	°	° ′ ″	s		
January 29	Lateral	1. 0	42·0	11. 48. 5·39	5·125	100	42·5
	Axial			6. 27. 48·40			
	Lateral	1. 6		3. 30. 0·37			
	Axial			1. 46. 45·11	5·123	100	43·2
February 11	Lateral	1. 0	41·9	11. 50. 43·04	5·132	100	39·5
	Axial			6. 28. 21·88			
	Lateral	1. 6		3. 30. 20·03			
	Axial			1. 46. 50·65	5·135	100	43·5
March 3	Lateral	1. 0	42·4	11. 48. 34·71	5·134	100	39·7
	Axial			6. 29. 19·01			
	Lateral	1. 6		3. 30. 30·83			
	Axial			1. 46. 35·49	5·130	100	43·2
April 15	Lateral	1. 0	55·8	11. 48. 45·16	5·086	100	54·5
	Axial			6. 30. 31·08			
	Lateral	1. 6		3. 29. 22·73			
	Axial			1. 46. 21·14	5·122	100	57·5
May 25	Lateral	1. 0	60·8	11. 43 39·30	5·138	100	58·2
	Axial			6. 30. 42·92			
	Lateral	1. 6		3. 29. 50·49			
	Axial			1. 45. 55·25	5·142	100	61·5
July 8	Lateral	1. 0	82·8	11. 41. 17·62	5·161	100	79·5
	Axial			6. 28. 30·17			
	Lateral	1. 6		3. 27. 49·09			
	Axial			1. 46. 13·25	5·150	100	82·8
August 26	Lateral	1. 0	71·0	11. 40. 40·45	5·152	100	71·5
	Axial			6. 27. 10·69			
	Lateral	1. 6		3. 29. 4·91			
	Axial			1. 47. 16·84	5·152	100	71·3
October 23	Lateral	1. 0	57·0	11. 36. 45·85	5·165	100	57·0
	Axial			6. 27. 22·77			
	Lateral	1. 6		3. 26. 45·87			
	Axial			1. 45. 47·10	5·155	100	57·0
December 2	Lateral	1. 0	44·0	11. 39. 27·95	5·152	100	44·0
	Axial			6. 26. 45·90			
	Lateral	1. 6		3. 26. 52·62			
	Axial			1. 44. 13·64	5·158	100	44·5

April 15. The result of the observations for determining the time of vibration before taking the deflexions is discordant, as compared with all other results. The time of vibration used in the calculation of the Absolute Measure of Horizontal Force is 5ˢ·122.

Computation of the Values of Absolute Measure of Horizontal Force.

Month and Day, 1852.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a_1.	Apparent Value of b_1.	Adopted Value of a, assuming the Mean Value of b as applicable to all.	Log. $\frac{1}{2}a = \text{Log. } \frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. m X.	Value of X.	Value of m.
January 29	+0·20726	−0·00274		+0·09866	+0·01391	+0·20732	9·01561	s 5·124	0·16932	3·775	0·3913
February 11	+0·20724	−0·00197		+0·09874	+0·01377	+0·20798	9·01699	5·134	0·16762	3·761	0·3911
March 3	+0·20758	−0·00292		+0·09792	+0·01309	+0·20754	9·01607	5·132	0·16796	3·767	0·3909
April 15	+0·20591	−0·00107		+0·09726	+0·01611	+0·20734	9·01565	5·122	0·16966	3·776	0·3914
May 25	+0·20797	−0·00471	−0·00281	+0·09644	+0·01697	+0·20631	9·01347	5·140	0·16660	3·772	0·3891
July 8	+0·20498	−0·00239		+0·09746	+0·01532	+0·20525	9·01127	5·155	0·16408	3·771	0·3869
August 26	+0·20731	−0·00490		+0·09963	+0·01276	+0·20549	9·01174	5·152	0·16458	3·771	0·3874
October 23	+0·20422	−0·00293		+0·09697	+0·01548	+0·20411	9·00881	5·160	0·16324	3·778	0·3855
December 2	+0·20370	−0·00163		+0·09438	+0·01789	+0·20473	9·00917	5·155	0·16408	3·780	0·3860

Values of Absolute Measure of Horizontal Force, from Observations of Vibration of the Deflecting Magnet $\frac{D}{XX}$, unaccompanied by Deflexion.

Month and Day, 1852.	Adopted time of Vibration.	Temperature.	Log. m X.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.
January 19	s 5·131	° 41·5	0·16814	0·3915	3·762
February 7	5·129	45·0	0·16848	0·3912	3·768
March 27	5·109	42·0	0·17186	0·3912	3·797
July 30	5·122	73·0	0·16966	0·3871	3·818
September 11	5·148	65·0	0·16526	0·3869	3·782
17	5·132	65·0	0·16796	0·3867	3·807
October 20	5·156	58·2	0·16390	0·3856	3·782
November 25	5·155	47·0	0·16408	0·3859	3·781
December 21	5·158	49·0	0·16358	0·3362	3·774
24	5·155	52·8	0·16408	0·3863	3·777

The number of observed vibrations employed in each determination was 100.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1852.

The day in the first column of the following tables is to be understood, generally, as defined in civil reckoning.

The barometer is described in the *Greenwich Magnetical and Meteorological Observations*, 1847, Introduction, page xlviii, and in the corresponding parts of several preceding volumes. The barometer has been read at 21^h, 0^h, 3^h, 9^h (Astronomical), on every day, excepting on Sundays and on Good Friday, November 18, and Christmas Day, on which days a smaller number of observations has been taken. Every reading has been reduced to the reading which would have been obtained at the temperature 32° of the mercury and scale, by application of the correction given in table II. (pages 82 to 87) of the Report of the Committee of Physics of the Royal Society. The mean of the reduced readings has then been taken for each civil day, and finally converted into mean daily reading by application of the correction inferred from Mr. Glaisher's paper in the *Philosophical Transactions*, 1848, part I.

The positions of all the thermometers are described in the Introduction, 1847, page lxix.

The thermometer used for determining the highest temperature of the air is a mercurial thermometer, invented by Messrs. Negretti and Zambra, and described in the volume for 1851; and that for the lowest is described in the Introduction, 1847, page lxvii: both are self-registering. The readings given are corrected for index-errors.

The dry-bulb and wet-bulb thermometers are described in the Introduction, 1847, page xlix; their scales have been verified from time to time, in the manner there described.

A mean daily reading of the dry thermometer is inferred from the mean of observations taken at the same hours as the observations of the barometer, corrected by a quantity given in the *Phil. Trans.*, 1848, part I. Another mean daily reading is inferred from the mean of the maximum and minimum thermometers, also corrected by a small quantity given in the same paper. The mean daily value given in the tables is found by combining these two corrected means, giving them weights proportional to the number of observations from which they are respectively derived.

The dew-point has been inferred exclusively from simultaneous observations of the dry-bulb and wet-bulb thermometers. In order to find the difference between the dry-bulb reading and the dew-point, the difference between the dry-bulb and the wet-bulb readings has been multiplied by a factor taken from the following table (deduced by Mr. Glaisher from comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, to the end of the year 1844).

TABLE OF FACTORS, BY WHICH THE DIFFERENCE OF READINGS OF THE DRY-BULB AND WET-BULB THERMOMETERS IS TO BE MULTIPLIED, IN ORDER TO PRODUCE THE DIFFERENCE BETWEEN THE READINGS OF THE DRY-BULB AND DEW-POINT THERMOMETERS.

Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.
°		°		°		°		°		°	
20	8·5	32	3·1	44	2·3	56	1·9	68	1·6	80	1·5
21	8·5	33	2 8	45	2·3	57	1·9	69	1·5	81	1·5
22	8·5	34	2 6	46	2·3	58	1·9	70	1·5	82	1·5
23	8·5	35	2·6	47	2·2	59	1·8	71	1·5	83	1 5
24	7·3	36	2·6	48	2·2	60	1·8	72	1·5	84	1·5
25	6·4	37	2·5	49	2·2	61	1·8	73	1·5	85	1·5
26	6·1	38	2·5	50	2·1	62	1·7	74	1·5	86	1 5
27	6·1	39	2·5	51	2·1	63	1·7	75	1·5	87	1 5
28	5·7	40	2·4	52	2·0	64	1·7	76	1·5	88	1·5
29	5·0	41	2·4	53	2·0	65	1·6	77	1·5	89	1·5
30	4·6	42	2·4	54	2 0	66	1·6	78	1·5	90	1·5
31	3·7	43	2·4	55	2·0	67	1·6	79	1·5		

The dew-point being thus found for each individual observation, the mean is taken for each day (as defined from midnight to midnight), and this mean is corrected by application of the elements in the *Phil. Trans.*, 1848, part I.

The thermometers exhibiting the lowest temperature on the grass, and the highest and lowest temperatures of the water of the Thames, are described in the Introduction, 1847, pages lxix and lxxi. They are occasionally verified. That for the highest temperature in the sunshine is a mercurial thermometer with blackened bulb, of Negretti and Zambra's construction. Observations were lost on January 22, February 1, 2, 17, and April 1.

The thermometer for the maximum temperature of the water of the Thames was out of order from March 4 to 26; May 11 to June 11; July 15 to 28; October 6 to 18; and on December 29, 30, and 31. That for the minimum temperature was out of order on March 5, 6, and 7, and from October 6 to 18.

The mean daily value of the difference between dew-point temperature and air temperature is the difference between the two numbers in the sixth and seventh columns. The Greatest and Least are the greatest and least among the differences corresponding to the times of observation in the civil day, and they probably differ little from the absolute maxima and minima.

The difference between the mean temperature for the day and the mean for the same day of the year on an average of ten years, is found by comparison with a table of results deduced by Mr. Glaisher from ten years' observations, made in the Magnetic and Meteorological Department of the Royal Observatory from the beginning of 1841 to the end of 1850. For all ordinary week days, to the end of 1847, the mean adopted in these results was the mean of the twelve readings made at equidistant intervals of two hours. For Sundays and exceptional days in those years the maximum and minimum readings were taken, and their mean was corrected for a difference exhibited in the Introductions to the various volumes of the *Magnetical and Meteorological Observations*. For 1848, 1849, 1850, and 1851, the mean adopted was the mean of four or six observations daily, corrected for diurnal range, combined with the results derived from maximum and minimum thermometers.

Osler's Anemometer is described in the Introduction, 1847, page lxxi. Little explanation of the results deduced from it appears to be necessary. In the columns of direction, the letter C is occasionally used for Calm. It may be understood generally that the greatest pressure occurred in gusts of short duration.

Whewell's Anemometer is described in the Introduction, 1847, page lxxii. The amount of movement of air here exhibited is to be understood as from 22^h to 22^h (10^h A.M. to 10^h A.M.), the numbers being placed opposite to the day preceding the civil day on which the instrument is read.

The register of rain is read at 9^h P.M. from Crosley's Rain-gauge, described in page lxxv of the Introduction, 1847. If, however, there appears to be any doubt as to the correctness of the results, reference is made to the Rain-gauge No. 2, described in the same place.

For understanding the divisions of time under the heads of Electricity and Weather, the following remarks are necessary:—The day is divided by columns into two parts (from midnight to noon, and from noon to midnight), and each of these parts is roughly subdivided into two or three parts by colons (:). Thus, when there is a single colon in the first column, it denotes that the remarks before it apply (roughly) to the interval from midnight to 6 A.M., and those following it to the interval from 6 A.M. to noon. When there are two colons in the first column, it is to be understood that the twelve hours are divided into three nearly equal parts of four hours each. And similarly for the second column.

The Electrical Apparatus is described in page lxxvii of the Introduction, 1847. The following is the explanation of the notation employed, it being premised that the quality of the Electricity is always to be supposed positive when no indication of quality is given:—

g cur. denotes *galvanic currents*	N denotes *negative*	s denotes *strong*	v denotes *variable*
m .. *moderate*	P .. *positive*	sp .. *sparks*	w .. *weak*

The duplication of the letter denotes an intensity of the modification described: thus, s s is very strong; v v, very variable.

The Clouds and Weather are described generally by Howard's Nomenclature; the figure denotes the proportion of sky covered by clouds, the whole sky being represented by 10. The notation is as follows:—

a denotes *aurora borealis*	hl denotes *hail*	h-r denotes *heavy rain*	h-sqs denotes *heavy squalls*
ci .. *cirrus*	so-ha .. *solar halo*	c-h-r .. *continued heavy rain*	fr-h-sqs .. *frequent heavy squalls*
ci-cu .. *cirro-cumulus*	l .. *lightning*	m-r .. *misty rain*	sc .. *scud*
ci-s .. *cirro-stratus*	li-cl .. *light clouds*	fr-m-r .. *frequent misty rain*	li-sc .. *light scud*
cu .. *cumulus*	lu-co .. *lunar corona*	sl-r .. *slight rain*	sl .. *sleet*
cu-s .. *cumulo-stratus*	lu-ha .. *lunar halo*	h-sh .. *heavy showers*	sn .. *snow*
d .. *dew*	m .. *meteor*	fr-shs .. *frequent showers*	sl-sn .. *slight snow*
h-d .. *heavy dew*	ms .. *meteors*	fr-h-shs .. *frequent heavy showers*	s .. *stratus*
f .. *fog*	n .. *nimbus*	li-shs .. *light showers*	t .. *thunder*
th-f .. *thick fog*	r .. *rain*	oc-shs .. *occasional showers*	t-s .. *thunder storm*
fr .. *frost*	th-r .. *thin rain*	sq .. *squall*	v .. *variable*
h-fr .. *hoar frost*	oc-r .. *occasional rain*	sqs .. *squalls*	w .. *wind*
h .. *haze*	fr-r .. *frozen rain*	fr-sqs .. *frequent squalls*	st-w .. *strong wind*

Observations of special character are reserved for the pages following the tabular arrangement.

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Osler's. Amount of Horizontal Movement of the Air on each day.	Whewell's.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.		in.
Jan. 1	..	29·759	34·1	30·7	31·8	25·1	36·0	29·0	41·0	38 4	6·7	7·4	6·0	− 5·1	W	SW	0·0	0·0	0·0	55		0·00
2	..	29·571	40·6	29·1	36·4	30·7	40·5	24 0	40·5	38·0	5·7	7·2	5·0	− 0·2	S	SW	0·0	0·0	0·0	70		0·00
3	..	29·586	45·2	35·4	40·4	33·4	49·2	28·5	40·5	38·2	7·0	11·8	2·6	+ 4·0	SW	SW	10·0	0·0	1·0	270		0·02
4	..	29·701	49·1	35·9	40·6	30·5	50·0	30·0	40·2	37·8	10·1	10·6	9·8	+ 4·4	W; NW	W	10·0	0·0	3 0	125		0·00
5	..	30·049	44·6	28·1	37·2	29·9	49 0	21·5	39·8	37·5	7·3	9·1	6·2	+ 1·1	W; SW	S	2·0	0·0	0·3	175		0·00
6	Greatest Declination N.	29·708	47·8	35·8	41·9	29·9	53·0	28·0	39·0	36·8	12·0	15·4	9·4	+ 5·8	S	SSW	3·0	0·0	0·3	235		0·00
7	Full	29·584	49·7	40·9	45·4	37·1	52·5	30·0	39·5	37·5	8·3	11·7	4·8	+ 9·3	SW	WSW	6·0	0·0	2·0	190		0·00
8	..	29·497	50·1	36·2	44·0	38 0	55·8	30·0	40·4	38·0	6·0	7·8	4·3	+ 7·9	SW; S	SSW	9·0	0·0	2·3	310		0·00
9	..	29·203	40·4	34·4	36·1	27·5	45·0	31·0	39·8	37·6	8·6	12·5	6·0	− 0·1	W	W	13·0	0·0	2·4	255		0·12
10	Perigee	29·565	40·0	30·9	34·8	27·5	50·3	24·5	39·5	37·5	7·3	10·8	6·0	− 1 5	W	WSW; SE	3·0	0·0	0·3	175		0·00
11	..	29·015	52 4	35 6	47 1	40·3	53·6	24·0	40·4	38·0	6·8	10·0	4·0	+10·7	SW	SW	6·0	0·0	4·0	230		0·20
12	..	29·095	53·6	44·3	47·8	44·7	55·0	40·8	41·2	39·2	3·1	4·4	2·4	+11·2	NE	E; SW	6·0	0·0	0·9	160		0·23
13	In Equator	29·397	49·6	38·7	42·6	40·7	50·0	33·0	42·0	39·5	1·9	2·6	1·7	+ 5·9	SW	SW; S	0·0	0·0	0·0	50		0·91
14	Last Qr.	29·623	50·6	44·7	47·0	43·5	50·7	38·0	43·0	40·5	3·5	4·6	2·9	+10·2	SW	SW	0·0	0·0	0·0	100		0·01
15	..	29·454	53·8	44·5	49·6	44·8	55·0	41·0	45·0	43·0	4·8	8·0	2·9	+12·7	SW	W	15·6	0·0	1·0	275		0·31
16	..	29·712	55·5	44·1	47·8	40·8	57·0	40·0	45·5	43·0	7·0	10·8	4·4	+10·8	SW	SW	12·0	0·0	0·8	115		0·00
17	..	29·970	47·4	38·2	42·3	35·1	54·5	34·8	45·2	43 2	7·2	10·4	4·8	+ 5·2	SW; NW	NW	2·0	0·0	0·2	100		0·10
18	..	30·213	45·4	34·1	37·5	33·7	50·0	27·0	44·8	41·6	3·8	9·2	3·6	+ 0·3	SW	SW	0·0	0·0	0·0	40		0·00
19	Greatest Declination S.	29·988	46·6	32·3	40·5	34·0	52·0	23·0	44·0	40·0	6·5	9·2	3·8	+ 3·1	S	S	0·0	0·0	0·0	95		0·00
20	..	29·634	49·9	40·7	45 6	40·1	53·0	30·5	43·5	40·0	5·5	7·1	4·6	+ 8·1	S	SSE; SW	4·5	0·0	0·5	155		0·07
21	New	29·656	48·4	35·3	43·2	37·4	52·5	29·5	42·6	40·0	5·8	7·5	4·6	+ 5·6	SW	S	7·0	0·0	1·8	270		0 01
22	..	29·210	54·6	37·7	43·4	33·6	..	45·4	43·4	40·6	9·8	14·3	6·8	+ 5·7	SW	S	10·0	0·0	1·3	215		0·25
23	..	29·515	45·2	35·4	39·5	33·0	52·5	30·0	42·4	40·5	6·5	9·2	5·2	+ 1·6	S	S	0·0	0·0	0·0	130		0·00
24	..	29·603	47·4	35·8	42·7	36·9	49·0	29·0	41·8	40·4	5·8	8·5	4·6	+ 4·7	SSW	SW	6·0	0·0	2·0	290		0·11
25	..	29·765	50·9	40·9	44·5	37·4	53·0	33·5	41·5	40·5	7·1	8·1	6·0	+ 6·4	WSW	SW	5·5	0·0	0·4	135		0·05
26	Apogee	29·891	51·4	37·6	44·4	38·4	60·5	31·8	41·8	40·6	6·0	9·7	2·5	+ 6·2	SW	SW	2·0	0·0	0·3	175		0·00
27	In Equator	29·414	46·8	39·9	42·7	38·4	54·0	34·5	42·4	40·5	4·3	6·2	3·6	+ 4·4	S	SW; S	5·0	0·0	0·6	80		0·24
28	..	29·748	43·4	32·1	36·4	32·5	48·0	28·5	42·0	40·0	3·9	7·2	2·5	− 2·0	Calm	WNW	0·0	0·0	0·0	15		0·00
29	First Qr.	29·930	46·0	29·9	38·7	32·4	53·8	22·8	41·5	39·5	6·3	9·2	5·7	+ 0·3	S	SSW	0·0	0·0	0·0	220		0·00
30	..	29·585	53·4	37·2	44·5	36·7	59·0	34·0	41·5	39·4	7·8	11·1	4·1	+ 6·0	SW; NW	W	5·3	0·0	1·0	125		0·14
31	..	29·676	51·1	35·2	43·5	38·7	57·8	27·8	42·0	39·6	4·8	6·7	3·6	+ 4·9	SW	SW; S	3·0	0·0	0·5	190		0·11
Feb. 1	..	29·695	57·1	45·9	51·5	45·3	..	34·5	43·0	40·8	6·2	9·0	5·6	+12·9	W	SW; Calm	8·0	0·0	1·8	140		0·00
2	..	29·856	57·4	43·7	50·0	45·2	..	35·5	45·0	41·5	4·8	7·6	2·1	+11·4	SW	SW	4·0	0·0	1·0	220		0·03
3	Greatest Declination N.	29·953	50·3	38·7	43·2	36·5	53·3	33·0	45·4	43·2	6·7	10·7	5·0	+ 4·5	SW	SW	2·0	0·0	0·2	125		0·00
4	..	29·833	51·4	39·1	46·2	41·4	52·5	37·0	45·0	42·6	4·8	5·9	1·9	+ 7·5	SW	W	10·0	0·0	2·8	320		0·14
5	Full.	29·599	54·8	50·9	51·6	48·4	57·7	35·5	47·0	43·6	3·2	6·2	2·0	+12·8	WSW	SW	10·0	0·0	1·5	240		0·14
6	..	29·725	53·0	40·2	44·5	36·7	55·0	40·0	47·8	44·5	7·8	9·9	6·5	+ 5·7	WSW	NW	4·0	0·0	0·8	..		0·01
7	Perigee	29·975	48·6	34·7	42·2	36·0	62·3	31·0	47·0	44·5	6·2	9·9	3·8	+ 3·4	W	W	0·0	0·0	0·0	..		0·00
8	..	29·328	54·8	43·9	49·4	43·2	58·0	32·0	46·6	44·5	6·2	10·0	3·5	+10·6	WSW	SW	6·0	0·0	1·2	..		0·12
9	In Equator	29·168	48·8	35·4	40·6	34·1	50·3	34·0	47·0	44·2	6·5	8·1	5·8	+ 1·7	SW	Calm	5·5	0·0	0·5	..		0·07
10	..	29·689	48·6	30·3	38·1	33·3	55·0	29·8	45·0	42·0	4·8	9·9	2·3	− 0·8	Calm	N	5·0	0·0	0·4	..		0·03
11	..	29·985	48·6	30·7	36·7	32·2	50·8	25·3	44·2	40·5	4·5	8·9	3·9	− 2·2	N	N	0·0	0·0	0·0	..		0·00
12	Last Qr.	29·771	43·2	26·5	34·3	29·4	52·6	20·8	42·0	39·5	4·9	8·2	3·1	− 4·7	N	SSE	0·0	0·0	0·0	..		0·00
13	..	29·569	39·4	32·1	35·0	29·5	45·8	26·4	41·8	39·5	5·5	7·5	4·9	− 4·0	SSE	SE	0·0	0·0	0·0	45		0·00
14	..	30·008	41·4	34·1	37·5	32·7	49·0	31·0	41·0	38·0	4·8	7·2	3·8	− 1·5	SSE	SE	0·0	0·0	0·0	105		0·00
15	..	30·011	47·8	33·7	43·1	37·8	50·0	38·8	41·0	38·0	5·3	6·2	4·6	+ 4·0	SW	SW	0·0	0·0	0·0	120		0·00
16	Greatest Declination S.	29·918	48·3	38·9	43·5	37·3	49·8	24·8	41·2	38·4	6·2	8·8	4·1	+ 4·4	W	W	3·5	0·0	0·8	260		0·03
17	..	29·671	57·4	44·6	51·1	43·3	..	40·0	42·6	39·0	7·8	10·2	6·4	+11·9	W	W	4·0	0·0	1·1	275		0·00
18	..	29·521	50·4	34·1	40·0	31·6	52·0	35·5	43·2	39·5	8·4	12·5	6·2	+ 0·7	NW	NW	5·8	0·0	1·7	190		0·00
19	..	29·742	38·6	32·6	34·4	27·6	46·8	29·0	42·8	39·0	6·8	9·8	3·9	− 4·4	NW; N	N	6·5	0·0	1·0	235		0·00
20	New	30·032	37·9	27·9	31·9	28·2	45·0	26·0	41·4	38·0	3·7	9·1	2·8	− 7·5	N	N	0·0	0·0	0·0	95		0·00
21	..	30·201	42·6	24·9	34·6	24·1	49·2	15·0	40·5	37·6	10·5	11·3	5·8	− 4·9	Calm	W	0·0	0·0	0·0	85		0·00
22	..	30·391	46·2	33·5	35·6	27·8	51·0	27·0	40·2	37·6	7·8	9·9	2·4	− 4·0	Calm	NE	0·0	0·0	0·0	20		0·00
23	Apogee In Equator	30·505	43·4	30·8	36·4	29·1	54·0	21·0	40·0	37·5	7·3	10·3	5·7	− 3·3	NE	NE	1·5	0·0	0·1	110		0·00
24	..	30·316	43·4	31·4	37·3	30·5	49·5	27·0	39·6	37·4	6·8	11·3	6·2	− 2·5	NE	NE	2·0	0·0	0·3	145		0·00
25	..	30·213	45·4	32·5	37·3	31·8	50·8	27·5	39·6	37·2	5·5	9·9	4·2	− 2·6	NE	NE	1·0	0·0	0·1	160		0·00
26	..	30·183	43·0	32·3	37·8	33·3	51·4	26·0	40·0	37·2	4·5	7·2	1·4	− 2·2	NE	NNE	2·0	0·0	0·3	100		0·01
27	..	29·972	45·6	33·3	39·2	33·4	54·0	26·0	39·5	37·4	5·8	9·9	3·3	− 1·0	NNE	N; Calm	0·6	0·0	0·0	105		0·00
28	First Qr.	29·537	48·9	35·0	41·9	35·9	52·5	27·2	40 2	37·8	6 0	9·7	2·3	+ 1·6	WSW	NW; NNE	0·0	0·0	0·0	150		0·15
29	..	29 679	42 4	34·1	37 7	29 2	48 5	25·0	40 0	37 6	8·5	10·1	6·5	− 2·7	N	Calm	2·0	0·0	0·3	165		0·00

Feb. 6d to 12d. Whewell's Anemometer was under repair.

MONTH and DAY, 1852.	ELECTRICITY.		CLOUDS AND WEATHER	
	A. M.	P. M.	A. M.	P. M.
Jan. 1	o	o	10	10
2	o	o	10 : 7	7 : r
3	o	o	o	v
4	o	o	3	3 : o
5	o	o	7	7 : 3
6	o	o	o	o : 10
7	o	o	o	o : 10, ci.-s, sc, lu.-ha
8	o	o	10, s, sc	10, s, sc
9	o	o	o : 10, cu.-s, ci.-s, sc, sl, r	10, cu.-s, ci.-s, sc, sl, r : v
10	o	o	o	o : 10
11	o	o	v, r	v, r : o
12	o	o	10, r	10, r
13	o	o	10, h.-r	10, h.-r
14	o	o	10	10
15	o	o	10 : 9	10 : r
16	o	o	7	7
17	o	o	7	7 : o
18	o	o	o	o
19	o	o	o	o : 10
20	o	o	10, fr.-shs.-r	10, fr.-shs.-r
21	o	o	10	10 : fr.-sqs.-w.-r
22	o	o	o	7 : o
23	o	o	o	o
24	o	o	10, h.-sh.-r	10, h.-sh.-r
25	o	o	o	o : h.-sh.-r, hl
26	o	o	o	o : 4 : 10
27	o	o	5 : 10	10, h.-r
28	o	m : o : o	10, th.-f : 7	7
29	m	m	o	7 : o
30	o	o	10	10 : o
31	o	o	10, fr.-r	10, fr.-r
Feb. 1	o	o	10	o
2	o	o	10	10 : m.-r
3	o	o	o	o
4	o	o	10, r	10, r
5	o	o	10, fr.-r	10, fr.-r
6	o	sps : o : o	o : v, hl, r	v : o
7	o	m	o	10
8	o	o	10	10 : h.-r
9	o	o	10	10 : h.-r : 10
10	o	P, N, s	10	10 : shs.-r : 10
11	o	w	7 : o	o
12	m	m	o	v
13	o	o	10	4 : 10
14	o	w	10	10
15	o	o	10	10 : a
16	o	o	10	10, sl.-r : r, a
17	o	o	10 : 9	10 : a
18	o	o	5	5 : c, a
19	o	o	o	10 : a
20	o	m : o : s	o	o : a
21	m	s	o	o : 10 : r
22	o	o	10	o
23	m	m	7	7 : 10
24	m	m	4	4 : 10
25	m	m	10	10 : o
26	o	o	10, oc.-r	10
27	o	o : m : m	10	10
28	N, s : o	o	10	10, h.-sh, hl, r : v, h.-sh, hl, r
29	o	o	v, ci.-cu, ci.-s	v, ci.-cu, ci.-s

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h A.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	P. M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Wheewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Mar. 1	Greatest Declination N.	29·608	49·0	30·4	40·0	34·2	55·7	22·0	40·0	37·6	5·8	12·1	5·3	— 0·6	W	W	2·0	0·0	0·2	120	0·02
2	..	29·688	46·5	31·5	36·9	31·4	66·3	32·0	40·4	38·0	5·5	12·3	4·8	— 3·9	W; N	N	0·0	0·0	0·0	90	0·00
3	..	29·952	44·6	28·7	35·2	26·6	55·8	21·0	40·5	38·0	8·6	11·5	7·0	— 5·6	N	N; NE	0·0	0·0	0·0	95	0·00
4	..	30·283	44·6	26·3	34·8	26·2	62·5	15·0	40·0	37·8	8·6	16·6	6·9	— 6·1	E	SE	0·0	0·0	0·0	40	0·00
5	..	30·392	44·9	21·3	33·9	25·8	65·3	11·5	39·8	37·5	8·1	14·5	5·6	— 7·2	ESE	ESE	0·0	0·0	0·0	50	0·00
6	Full Perigee	30·626	47·1	25·8	36·3	25·6	65·0	17·3	39·5	37·4	10·7	18·6	5·1	— 4·8	E	ENE	0·0	0·0	0·0	90	0·00
7	In Equator	30·521	56·6	28·1	40·2	31·3	70·2	20·0	39·5	37·5	8·9	18·6	4·0	— 1·0	NE	ENE	0·0	0·0	0·0	120	0·00
8	..	30·395	49·4	30·7	41·2	34·2	61·4	24·0	39·6	37·6	7·0	12·3	5·8	— 0·1	ENE	ENE	0·0	0·0	0·0	110	0·00
9	..	30·308	52·2	35·5	42·7	35·5	70·5	29·8	40·5	38·2	7·2	11·6	3·9	+ 1·3	ENE	ENE	0·0	0·0	0·0	190	0·00
10	..	30·242	47·2	33·5	38·3	34·3	70·5	30·0	41·5	39·0	4·0	10·1	3·8	— 3·2	NE	E	0·0	0·0	0·0	60	0·00
11	..	30·116	44·4	31·7	37·8	33·0	47·0	27·0	41·6	39·2	4·8	9·9	2·7	— 3·8	N	N; NE	1·0	0·0	0·1	120	0·00
12	Last Qr.	30·230	49·6	34·3	40·1	33·9	56·0	30·0	42·0	39·5	6·2	13·2	3·6	— 1·6	NE	E	0·0	0·0	0·0	100	0·00
13	..	30·287	49·6	32·1	39·8	32·1	68·5	23·8	42·2	39·6	7·7	15·0	5·8	— 2·0	NE	E	0·0	0·0	0·0	75	0·00
14	Greatest Declination S.	30·295	49·6	31·9	39·7	33·7	62·5	21·4	42·2	39·8	6·0	13·9	5·0	— 2·2	E; NE	E	0·0	0·0	0·0	45	0·00
15	..	30·316	46·7	28·5	37·8	33·0	49·5	19·0	42·0	40·0	4·8	8·2	2·6	— 4·2	E	NE	..	..	..	65	0·00
16	..	30·265	48·4	40·9	43·6	36·5	53·6	33·0	42·2	40·2	7·1	11·4	6·0	+ 1·5	N	N	..	..	..	95	0·00
17	..	30·203	49·6	34·3	40·8	35·5	53·6	26·0	42·2	40·5	5·3	12·3	3·4	— 1·4	NE	NE	..	..	..	85	0·00
18	..	30·108	43·8	32·9	38·1	32·6	49·0	23·0	42·0	40·4	5·5	9·9	2·8	— 4·2	ENE	ENE	..	..	..	105	0·00
19	..	30·024	47·6	32·7	39·7	33·5	62·5	24·0	42·0	40·2	6·2	12·8	3·6	— 2·7	E	E	0·0	0·0	0·0	125	0·00
20	New	29·990	55·4	30·9	43·7	34·0	70·0	21·5	42·4	40·5	9·7	19·4	3·0	+ 1·2	ESE	E	0·0	0·0	0·0	110	0·00
21	In Equator Apogee	29·996	60·4	34·3	47·4	36·0	75·0	21·0	43·0	40·6	11·4	16·7	6·0	+ 4·8	SE	SE	0·0	0·0	0·0	140	0·00
22	..	30·007	65·9	37·0	54·2	41·8	74·5	28·5	44·4	41·5	12·4	15·7	8·8	+11·5	SE	S	0·0	0·0	0·0	65	0·00
23	..	29·897	68·4	33·5	53·3	40·1	77·0	25·0	45·6	42·0	13·2	18·4	3·2	+10·5	Calm	Calm	0·0	0·0	0·0	40	0·00
24	..	29·772	60·3	32·3	46·3	37·6	71·0	23·5	45·8	42·0	8·7	15·1	5·7	+ 3·4	SSW	NE	0·0	0·0	0·0	95	0·00
25	..	29·852	47·5	28·5	39·7	30·1	60·0	17·5	45·5	42·2	9·6	14·0	3·7	— 3·3	NNE	NNE	0·0	0·0	0·0	120	0·00
26	..	29·678	48·0	33·7	40·2	32·0	55·5	25·5	45·5	42·5	8·2	12·8	3·0	— 3·0	NNW	NE	0·0	0·0	0·0	55	0·00
27	..	29·495	44·0	27·3	37·7	28·9	51·5	19·0	45·2	42·4	8·8	13·1	5·2	— 5·6	S	WSW; S	0·0	0·0	0·0	50	0·00
28	First Qr.	29·504	49·5	24·7	39·8	34·5	68·5	16·0	45·0	42·4	5·3	7·5	3·4	— 3·6	ENE	ESE	0·0	0·0	0·0	125	0·00
29	Greatest Declination N.	29·313	57·0	37·0	46·9	40·5	75·5	30·5	44·5	42·5	6·4	13·7	4·6	+ 3·3	SSW	SSW	2·0	0·0	0·2	145	0·00
30	30	29·139	56·0	44·7	50·1	46·9	59·0	43·0	44·5	43·5	3·2	4·8	1·0	+ 6·3	SW	NNE	0·0	0·0	0·0	150	0·11
31	31	29·514	48·0	42·3	43·5	40·5	50·5	36·5	44·5	44·5	3·0	7·9	2·0	— 0·4	NE	NNE	0·0	0·0	0·0	135	0·01
April 1	..	29·986	55·0	36·7	42·9	37·1	..	38·5	44·5	44·5	5·8	16·6	5·3	— 1·3	NE	NE; E	0·0	0·0	0·0	70	0·00
2	..	30·171	50·1	28·3	39·9	33·9	71·0	18·5	44·5	44·5	6·0	11·3	2·8	— 4·4	E	E	0·0	0·0	0·0	90	0·00
3	..	30·176	53·5	28·0	41·6	35·1	75·5	16·5	44·5	44·5	6·5	15·8	4·9	— 2·8	NE	NE	0·0	0·0	0·0	85	0·00
4	In Equator Perigee Full	30·030	52·5	30·5	39·7	33·2	70·2	18·0	..	44·5	6·5	13·0	5·5	— 4·9	E	E; NE	0.0	0·0	0·0	105	0·00
5	..	29·985	61·3	32·9	47·2	41·3	75·5	22·5	..	..	5·9	13·5	2·8	+ 2·4	NNE	ESE	0·0	0·0	0·0	65	0·00
6	..	30·003	58·0	32·7	45·0	40·6	80·2	29·5	..	..	4·4	11·6	2·4	+ 0·1	ESE; NE	NE	0·0	0·0	0·0	75	0·00
7	..	30·051	50·6	39·5	42·3	38·0	62·5	40·0	..	..	4·3	12·8	2·2	— 2·9	NE	NE	0·0	0·0	0·0	120	0·00
8	..	30·123	55·5	38·1	44·6	37·5	73·0	32·8	..	45·0	7·1	16·2	5·5	— 0·8	NE	NNE; E	2·3	0·0	0·2	100	0·00
9	..	30·199	55·0	33·0	42·4	37·1	69·5	23·5	..	45·2	5·3	16·2	3·3	— 3·1	E	E	0·0	0·0	0·0	55	0·00
10	Greatest Declination S.	30·118	61·0	26·7	46·5	39·2	77·0	19·0	..	45·8	7·3	16·0	0·0	+ 0·8	NE	NE; Calm	0·0	0·0	0·0	25	0·00
11	Last Qr.	30·055	55·2	30·5	42·7	35·7	76·5	21·5	..	46·0	7·0	15·0	0·0	— 3·2	NE; E	E	0·0	0·0	0·0	110	0·00
12	..	30·139	56·5	38·5	45·1	40·7	79·2	30·5	..	46·5	4·4	13·3	3·7	— 1·0	E	E	0·0	0·0	0·0	70	0·00
13	..	30·170	67·0	32·9	50·2	41·4	85·5	22·5	..	47·5	8·8	19·5	3·9	+ 3·9	E	E	0·0	0·0	0·0	40	0·00
14	..	30·097	74·7	34·3	57·7	44·8	94·5	24·0	..	48·0	12·9	17·4	8·0	+11·3	Calm	NE; E	0·0	0·0	0·0	50	0·00
15	..	30·002	56·2	33·5	45·9	41·5	74·5	25·0	..	48·5	4·4	9·5	3·0	— 0·7	E	ESE	0·0	0·0	0·0	100	0·00
16	..	29·868	52·5	35·3	41·5	36·5	67·8	40·0	..	49·0	5·0	11·2	4·9	— 5·3	NE	ENE	2·0	0·0	0·3	115	0·00
17	Apogee In Equator	29·752	57·7	28·9	45·6	37·3	80·9	18·0	..	48·4	8·3	15·6	6·5	— 1·4	NE	NE	0·0	0·0	0·0	110	0·00
18	..	29·728	49·8	36·5	42·0	35·5	60·6	28·0	..	47·6	6·5	7·3	3·3	— 5·2	SW; N	NE	2·0	0·0	0·2	80	0·00
19	New	29·928	50·5	34·1	39·7	33·2	71·5	30·5	..	47·5	6·5	10·4	4·2	— 7·6	NNE	NE; SE	0·0	0·0	0·0	80	0·00
20	..	29·999	58·0	28·3	44·5	32·3	80·8	17·0	..	47·5	12·2	19·6	0·0	— 2·9	S; SW	SW; S	0·0	0·0	0·0	75	0·00
21	..	29·928	60·3	29·0	46·8	35·6	80·8	16·0	..	47·5	11·2	19·4	6·7	— 0·8	Calm; SE	ESE	0·0	0·0	0·0	125	0·00
22	..	29·722	65·8	36·5	51·2	41·5	85·2	25·5	..	48·0	9·7	18·4	5·4	+ 3·4	E	E	0·0	0·0	0·0	125	0·00
23	..	29·744	67·0	41·7	53·3	43·5	85·5	30·5	..	48·5	9·8	15·4	4·8	+ 5·3	E	E	3·5	0·0	0·7	220	0·00
24	..	29·700	53·8	38·5	44·4	32·7	68·9	35·0	..	48·0	11·7	19·7	4·4	— 3·9	E	E	9·0	0·0	3·0	165	0·00
25	Greatest Declination N.	29·819	59·0	33·3	44·4	33·1	75·5	24·0	..	48·0	11·3	23·9	4·6	— 4·1	ENE	E; ENE	3·0	0·0	0·5	80	0·00
26	..	29·856	64·3	34·5	50·6	34·6	84·7	23·4	..	48·3	16·0	21·1	2·9	+ 1·8	ENE	ENE; ESE	0·0	0·0	0·0	60	0·00
27	First Qr.	30·026	54·2	30·8	42·5	34·3	68·8	20·0	50·5	48·8	8·2	16·2	4·0	— 6·5	Calm	NNE	0·0	0·0	0·0	20	0·00
28	..	29·908	64·0	29·5	49·8	37·0	82·0	22·5	51·0	48·8	12·8	18·9	6·2	— 0·5	Calm	SW	0·0	0·0	0·0	140	0·00
29	..	29·644	61·0	43·5	52·2	49·2	63·3	44·0	51·6	49·8	3·0	7·7	0·0	+ 2·6	SW; W	WSW	0·0	0·0	0·0	170	0·43

March 15 to 18. Osler's Anemometer was under repair.

MONTH and DAY, 1852.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Mar. 1	o	o	o : 10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s, shs.-bl.-r
2	o	w	7, cu, ci.-cu, ci.-s	7, cu, ci.-cu, ci.-s : o
3	o	m	o	10, cu, ci.-s : o
4	o : o : m	m	o	o
5	m	o : m : o	o	o
6	o	o	o	o
7	o	o	o	o
8	o	o	10, ci.-s	o : 10, ci.-s
9	o	o	10, ci.-s	o
10	o	o : m : o	10, ci.-s	o : 10, ci.-s, f
11	m	o : m	10, f	10
12	o : o : m	o : m	10, cu, cu.-s, ci.-s	v, cu, cu.-s, ci.-s : o
13	o : o : m	o : m : o	v, cu, cu.-s, ci.-s	o : v, cu, cu.-s, ci.-s
14	m	o	10	10
15	o	m	5	10
16	o	o	10, ci.-s	10, ci.-s
17	o : o : m	s : o	10	10 : v
18	o : o : m	m : o : o	10, ci.-s	10, ci.-s : v, ci.-s
19	m : o : o	o	9, cu.-s, ci.-s	9, cu.-s, ci.-s, : 10, cu.-s, ci.-s
20	o : s	s	o	o
21	m	o	4, ci, li.-cl	4, ci, li.-cl : o
22	s	s	o	7, s : o
23	m	m	5, s, h	5, s
24	o : o : m	o	o, h	10, ci.-s
25	w	o : m : o	o	10, cu, ci.-cu, ci.-s
26	o : o : w	o : w : o	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s
27	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s
28	o	o	v, cu.-s, ci.-s	v, cu.-s, ci.-s : 10
29	o	o	7, s, ci.-s	7, s, ci.-s : 10, r
30	o	o	10, ci.-s, r	10, ci.-s
31	o	o	10, ci.-s	10, ci.-s
April 1	o	o	10, ci.-cu, ci.-s	o
2	o	o	4, ci.-cu	o
3	o	o	5, ci.-cu, s	o
4	o	o	10, ci.-s	o
5	o	o	7, cu.-s, ci.-s	7, cu.-s, ci.-s : o
6	o	o	10, ci.-s	10, ci.-s
7	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s
8	o	o	o	o
9	o	o	10, ci.-cu, ci.-s : o	o
10	o	o	o, f	o
11	o	o	10 : o	o
12	o	o	10 : o	o
13	o	o	7, s, h : o	o
14	o	m : o : o	o	o
15	o	o	7 : o	o : 10, ci.-s
16	o	o	10, ci.-cu, ci.-s	o
17	o	m : o : o	o	7, cu.-s, ci.-s : 10, ci.-s
18	w : o : o	o	10, ci.-s	10, ci.-s
19	o	w : o	4	10
20	o : o : w	m : o	o	o
21	o : o : w	w : o	5, ci.-s, li.-cl	o
22	o : o : w	o	10, cu, ci.-s : 4	4, cu, ci.-s, li.-cl
23	w	o	10, cu.-s, ci.-s, li.-cl	v, cu.-s, ci.-s, li.-cl : 10
24	o	o	1, s, ci.-s	1, s, ci.-s
25	o	o	5, cu.-s, ci.-s	o
26	o	o	o	o
27	o	o	10	10
28	o : o : w	o	10, ci.-s	10, ci.-s : r
29	o	o	10, fr.-r	10, fr.-r

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit.	Readings of Thermometers. Dry. Highest	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer, read at 9 P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer, read at 9 A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day of each Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Wheewell's. Amount of Horizontal Movement of the Air in each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°		°	°	°	°	°						miles	in.
April 30	..	29·411	65·2	49·7	53·8	46·2	80·9	50·0	52·5	50·0	7·6	22·6	3·4	+ 3·9	WSW	W	4·0	0·0	0·3	85	0·07
May 1	In Equator	29·667	56·6	44·4	46·7	38·3	64·5	45·0	52·6	50·2	8·4	16·8	4·4	— 3·7	NNE	NNE	2·0	0·0	0·1	85	0·02
2	Perigee	29·908	50·9	34·0	41·3	30·3	64·5	27·0	52·2	49·5	11·0	17·2	6·0	— 9·4	N	NE	2·5	0·0	0·2	75	0·00
3	Full	29·990	58·5	29·3	44·1	31·7	84·0	19·8	52·0	49·5	12·4	19·8	8·3	— 7·0	NE	NE; E	0·0	0·0	0·0	35	0·00
4	..	30·046	57·5	30·0	43·1	32·7	79·0	22·0	52·0	49·6	12·4	20·7	9·2	— 6·3	N	NE; E	0·0	0·0	0·0	50	0·00
5	..	30·087	58·8	31·9	46·9	34·4	80·0	14·0	52·0	50·0	12·5	16·5	8·7	— 4·8	E; NE	NE	0·0	0·0	0·0	50	0·00
6	..	30·075	57·3	34·7	47·4	38·2	73·6	16·0	51·8	50·0	9·2	16·7	4·9	— 4·5	NE	NNE; E	0·0	0·0	0·0	45	0·00
7	Greatest Declination S.	29·940	64·7	39·9	53·0	40·8	79·0	28·8	52·5	50·5	12·2	16·3	5·3	+ 0·7	Calm	SW	0·0	0·0	0·0	95	0·00
8	..	29·919	73·0	45·3	59·0	47·3	97·7	37·5	53·6	52·0	11·7	16·5	7·1	+ 6·5	WSW	W	0·0	0·0	0·0	145	0·00
9	..	29·922	73·2	48·3	56·3	42·0	92·7	37·0	55·0	52·2	14·3	20·1	9·4	+ 3·7	SW	SW	2·5	0·0	0·2	165	0·00
10	Last Qr.	29·744	59·0	51·1	52·9	46·5	82·4	37·5	56·0	52·5	6·4	12·2	4·1	+ 0·7	SSW	SW	2·5	0·0	0·3	210	0·01
11	..	29·774	62·5	40·3	48·8	42·4	81·5	37·0	..	52·2	6·4	18·7	1·9	— 4·1	SW	SW	10·0	0·0	1·3	230	0·10
12	..	29·537	61·4	46·3	50·9	47·3	69·5	40·5	..	52·0	3·6	8·8	..	— 2·0	SW	SW	5·0	0·0	0·5	165	0·14
13	..	29·586	60·8	48·6	53·5	48·7	68·0	43·2	..	52·6	4·8	7·6	3·5	+ 0·4	SW	SW	5·3	0·0	1·5	145	0·05
14	..	29·597	63·2	49·0	53·1	42·3	83·8	47·5	..	53·5	10·8	16·4	7·7	— 0·1	SW	SSW	5·5	0·0	1·8	185	0·00
15	In Equator Apogee	29·933	65·0	41·7	53·6	43·0	86·5	36·5	..	54·0	10·6	16·3	5·0	+ 0·2	SSW	S	1·8	0·0	0·7	120	0·00
16	..	29·689	73·4	44·7	59·3	47·2	92·5	37·0	..	55·0	12·1	20·4	5·0	+ 5·7	SE	S; SW	0·0	0·0	0·0	55	0·00
17	..	29·675	62·5	49·9	54·0	51·2	70·0	44·0	..	54·5	2·8	7·6	1·2	+ 0·1	SW	Calm	0·0	0·0	0·0	60	0·38
18	..	29·482	71·0	47·9	59·2	54·7	89·2	41·0	..	55·5	4·5	11·2	4·0	+ 5·1	NE	ENE; Calm	2·0	0·0	0·1	80	0·26
19	New	29·727	64·4	47·7	54·9	46·9	83·8	40·8	..	56·5	8·0	13·3	2·9	+ 0·5	S	S	0·0	0·0	0·0	40	0·10
20	..	29·853	70·5	45·1	58·3	49·6	91·5	36·5	..	57·0	8·7	14·7	3·9	+ 3·5	NE	NE	0·0	0·0	0·0	25	0·00
21	..	29·853	59·4	48·3	51·2	47·6	74·5	49·5	..	57·4	3·6	9·7	3·5	— 3·9	NE; N	N	0·0	0·0	0·0	25	0·10
22	Greatest Declination N.	29·900	62·7	47·8	52·3	48·5	75·5	47·5	..	57·2	3·8	8·2	2·0	— 3·1	N	N	0·0	0·0	0·0	35	0·00
23	..	29·917	58·7	47·4	51·3	46·0	64·2	52·5	..	57·0	5·3	8·5	3·0	— 4·4	N	N	0·0	0·0	0·0	80	0·00
24	..	29·866	68·2	44·5	54·8	49·6	88·7	46·0	..	57·0	5·2	13·0	1·6	— 1·2	NNW	N; NE	0·0	0·0	0·0	75	0·00
25	..	29·771	64·7	43·7	53·1	48·5	80·5	49·0	..	56·8	4·6	11·0	3·0	— 3·2	NNE	NNE	1·0	0·0	0·1	125	0·00
26	First Qr.	29·675	53·4	48·5	49·9	47·5	54·5	48·0	..	56·4	2·4	3·6	0·0	— 6·7	NNE	NNE	2·5	0·0	0·2	40	0·56
27	..	29·760	53·5	48·5	49·1	46·2	57·7	49·5	..	56·0	2·9	7·8	3·1	— 7·8	N	N	0·0	0·0	0·0	60	0·00
28	..	29·681	58·2	46·9	50·6	45·3	66·2	47·0	..	55·0	5·3	9·5	3·7	— 6·6	N	NNE	0·0	0·0	0·0	25	0·01
29	In Equator	29·521	52·0	44·7	46·8	44·5	71·5	47·5	..	54·5	2·3	4·4	0·0	—10·5	N	N	0·0	0·0	0·0	75	0·30
30	..	29·593	59·0	36·9	48·2	37·9	77·2	30·7	..	54·5	10·3	18·0	4·5	— 9·4	NW	SW	0·0	0·0	0·0	75	0·00
31	Perigee	29·685	59·7	41·0	50·0	40·5	78·7	35·0	..	54·8	9·5	15·5	5·0	— 7·8	SW	SW	0·0	0·0	0·0	75	0·00
June 1	..	29·738	66·5	41·0	52·2	43·6	89·7	35·5	..	55·0	8·6	16·5	6·9	— 5·7	SSW	SW	2·0	0·0	0·2	120	0·05
2	Full	29·708	63·8	45·5	53·8	44·2	81·8	45·0	..	55·2	9·6	14·5	6·6	— 4·3	S	S	5·5	0·0	1·2	140	0·00
3	..	29·598	61·0	49·1	51·8	46·4	70·3	48·0	..	55·4	5·4	11·7	5·1	— 6·5	S	SSE	5·0	0·0	0·5	60	0·15
4	Greatest Declination N.	29·664	66·4	46·0	54·6	42·2	89·2	40·0	..	55·6	12·4	19·0	4·6	— 3·9	SSE; SW	SSW	1·0	0·0	0·0	65	0·00
5	..	29·828	69·4	44·4	56·7	43·4	90·0	37·5	..	56·0	13·3	18·8	4·6	— 2·0	S	SE; E	1·0	0·0	0·0	40	0·00
6	..	29·620	69·8	53·9	58·2	50·8	83·3	52·0	..	55·8	7·4	13·4	6·5	— 0·6	SE	SE; S	0·0	0·0	0·0	30	0·05
7	..	29·412	65·3	53·6	59·6	55·2	65·0	48·0	..	56·0	4·4	5·6	1·6	+ 0·7	E	NE; S	4·0	0·0	0·4	45	0·15
8	..	29·492	69·4	52·3	58·2	54·2	80·5	44·0	..	56·2	4·0	13·4	2·2	— 0·8	SE; E	ESE	0·0	0·0	0·0	10	0·06
9	Last Qr.	29·419	60·3	53·9	56·9	53·5	61·5	46·0	..	56·8	3·4	4·0	0·0	— 2·1	Calm	SW	0·0	0·0	0·0	80	1·36
10	..	29·420	57·6	46·5	50·8	46·6	58·0	51·5	..	57·4	4·2	6·2	0·2	— 8·3	NNW	NW; SW	0·0	0·0	0·0	70	0·99
11	In Equator Apogee	29·403	57·5	44·3	51·2	43·0	64·2	35·0	..	56·5	8·2	9·8	1·6	— 8·0	SW	W; SW	3·5	0·0	0·6	105	0·02
12	..	29·561	59·6	42·5	49·3	43·6	69·4	34·2	58·5	55·6	5·7	13·1	3·8	—10·0	SW	W	0·0	0·0	0·0	40	0·00
13	..	29·510	65·7	44·5	53·7	43·3	88·3	35·0	58·5	55·8	10·4	17·6	4·1	— 5·7	SW	S	1·5	0·0	0·3	130	0·06
14	..	29·147	66·0	48·5	55·2	46·6	85·2	46·5	58·4	56·0	8·6	15·7	4·6	— 4·3	SW	SW	3·5	0·0	0·5	125	0·27
15	..	29·400	70·2	48·5	55·7	50·0	89·4	40·0	59·6	57·0	5·7	16·8	5·3	— 4·0	SW	SW; S	1·0	0·0	0·2	100	0·05
16	..	29·255	65·4	48·7	54·8	47·8	79·4	41·5	60·4	57·2	7·0	15·5	4·0	— 5·0	SE	S	7·0	0·0	1·3	110	0·03
17	New	29·355	64·7	50·7	55·3	45·9	80·3	44·5	60·8	57·6	9·4	14·6	3·9	— 4·5	SSE	S; SE	3·0	0·0	0·9	140	0·10
18	Greatest Declination N.	29·451	63·8	49·7	54·1	47·7	77·2	45·0	61·2	58·2	6·4	12·1	2·7	— 5·9	S	SSE	4·4	0·0	1·4	135	0·06
19	..	29·524	69·2	52·1	57·4	49·8	87·6	48·3	61·2	58·5	7·6	14·4	3·0	— 2·8	SSE; SW	WSW	1·0	0·0	0·0	125	0·52
20	..	29·628	68·5	49·7	56·4	51·6	87·2	41·5	62·0	59·4	4·8	14·2	2·5	— 3·9	W	S; SSE	0·0	0·0	0·0	100	0·05
21	..	29·457	67·0	53·7	57·2	51·3	82·7	55·0	62·0	59·5	5·9	11·2	4·5	— 3·2	SSE	SSW	5·5	0·0	1·2	185	0·03
22	..	29·540	65·7	48·3	55·3	47·1	84·3	40·5	62·6	60·0	8·2	15·1	4·0	— 5·2	S	SSW	4·0	0·0	0·5	140	0·01
23	..	29·622	70·8	50·0	60·3	47·7	95·2	43·2	62·2	60·0	12·6	16·1	4·6	— 0·3	S; SW	WSW	0·0	0·0	0·0	100	0·00
24	First Qr.	29·886	72·2	48·1	59·2	47·3	97·7	40·0	64·0	60·6	11·9	19·7	4·2	— 1·5	SW	SW	0·0	0·0	0·0	55	0·00
25	In Equator	29·831	72·7	47·3	60·8	46·9	93·0	39·5	63·5	60·6	13·9	18·0	4·8	+ 0·1	S	S	2·5	0·0	0·1	70	0·00
26	..	29·618	69·6	55·5	60·7	55·1	85·6	54·5	63·8	61·5	5·6	11·0	4·0	0·0	SE	SW	4·0	0·0	0·2	75	0·45
27	Perigee	29·670	69·5	51·7	56·9	50·2	85·7	45·5	64·8	62·2	6·7	14·9	4·0	— 3·8	S; SW	S	0·0	0·0	0·0	85	0·08

MONTH and DAY, 1852.	ELECTRICITY.		CLOUDS AND WEATHER	
	A. M.	P. M.	A. M.	P. M.
April 30	o	o	10, cu, ci.-cu, ci.-s	10, cu, ci-cu, ci.-s : [illegible], r
May 1	o	o	10	10 : v
2	o	o	10 cu, ci.-cu, ci.-s, sl.-r	10, cu, ci.-cu, ci-s : [illegible]
3	o	o	5, cu, cu.-s	7, cu, cu.-s : [illegible]
4	o	o	7, cu, cu.-s, ci.-s, so.-ha	7, cu, cu.-s, ci.-s
5	o	w : o : o	7. cu.-s, ci.-s	7, cu.-s, ci.-s
6	o	o	10, cu.-s, ci.-s, li.-cl	10, cu.-s, ci.-s, li.-cl : o
7	o	o	5, cu.-s, ci.-s	10, cu.-s, ci.-s
8	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s
9	o	o	5	o
10	o	o	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s, r
11	o : o : N, s	N, s, sps	v, cu, ci.-cu, ci.-s, shs.-hl.-r	v, cu, ci.-cu, ci.-s, shs.-hl. r
12	N, s	o	10, cu.-s, ci.-s, shs.-r	10, cu.-s, ci.-s, shs.-r : o
13	o	o	10, ci.-s, sc, fr.-shs.-r	10, ci.-s, sc, fr.-shs.-r
14	o	w : o	10, cu, ci.-cu, ci.-s	7, cu, ci.-cu, ci.-s : o, r
15	o : o : s	w	7	o
16	w	m	o	o
17	o	o : w	10, fr.-r	10, fr.-r : l, t
18	o : m	s : o : o	10, cu.-s, ci.-s : 5	10, cu.-s, ci.-s, fr.-r
19	o	o	7, cu, ci.-cu, ci.-s	7, cu, ci.-cu, ci.-s
20	o	o	7, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s : r
21	o	o	10, ci.-s, r	10, ci.-s
22	w	w	10	10 : [illegible]
23	o	o	10	10
24	o	w : o	10	o : [illegible]
25	o : w	w	10	10
26	N, s : o	o	10, r	10, r
27	o	w : o	10	10
28	v	v : o	10	10
29	P, N, s	P, N, s : o	10, r	10, r
30	m	m	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s
31	o	o : s	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : 7
June 1	s, sps	s, sps : o	7, cu, cu.-s, s : t, h.-r	7, cu, cu.-s, s
2	o	o	10, cu.-s, ci.-s	7, cu.-s, ci.-s
3	o	o	10, r	10
4	o : w	w : o	10, ci.-cu, ci.-s, li.-cl	7, ci.-cu, ci.-s, li.-cl : o
5	o	o : m	5, s, ci.-s	10, s, ci.-s
6	o	o	10, s, ci.-s, r	9, s, ci.-s : 10
7	o	w : o	10, ci.-s, r	10, ci.-s, r
8	N, s, sps : o	o	10, ci.-s, r	10, ci.-s, r : v
9	N, s, sps	o	10, h.-r	10, h.-r
10	o	o	10, r	10, r : o
11	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s : v, a
12	o	o	10, ci.-s, th.-r	10, ci.-s, th.-r
13	o	s, sps : o	10, cu. ci.-cu, ci.-s shs.-r	10, cu, ci.-cu, ci.-s, shs.-r
14	o	s, sps : o	7, cu, cu.-s, n, h.-shs.-r	7, cu, cu.-s, n, h.-shs.-r : 10
15	o	o	9, ci.-cu, ci.-s, sc, shs.-r	10, ci.-cu. ci.-s, sc, shs.-r
16	o	o : w : o	10, ci.-cu, ci.-s, sc, sl.-r	10, ci.-cu, ci.-s, sc, sl.-r
17	o	o	10, s, ci.-s, sc : 9	10, s, ci.-s, sc, shs.-r
18	w	w : o	10, s, ci.-s, sc, shs.-r : 7	7, s, ci.-s, sc, shs.-r
19	o	o : w	10	10 : t.-s, h.-r
20	o	o	10	10. r
21	o	o	10, ci.-s, sc	10, ci.-s, sc
22	o	o : w	7, ci.-cu, ci.-s	10, ci.-cu, ci.-s : v, r
23	o : w	w	10, cu.-s, ci.-s	3
24	o	w : o	7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : o
25	o : s, sps	s, sps : o	5, ci.-cu, ci.-s	5, ci.-cu, ci.-s
26	N, s	o	10, cu, ci.-cu, ci.-s, h.-r	10, cu, ci.-cu, ci.-s, h.-r
27	o	w : o	10 : shs.-r	3

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers read at 9 o'clock next morning. Highest.	Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 16 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Wheewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
June 28	..	29·662	69·2	51·3	58·6	50·1	91·5	47·0	65·0	63·0	8·5	14·1	3·8	— 2·2	SW	SW; S	4·0	0·0	0·6	145	0·01
29	..	29·641	67·4	56·0	58·6	51·8	85·9	55·8	64·8	62·5	6·8	10·9	4·9	— 2·3	SW	SW	4·5	0·0	0·9	240	0·00
30	..	29·733	71·8	53·6	60·0	48·5	91·4	47·5	64·2	62·0	11·5	18·2	8·8	— 1·1	SW	SW	5·0	0·0	2·0	185	0·00
July 1	Full. Greatest Dec. S	29·929	68·4	49·6	59·3	46·9	91·8	42·5	64·5	62·0	12·4	15·5	5·3	— 1·8	SW	SW	2·5	0·0	0·3	135	0·00
2	..	29·992	71·2	51·3	60·0	49·4	90·4	45·5	64·5	62·0	10·6	16·4	3·6	— 1·2	S; SW	SW; S	3·8	0·0	0·5	70	0·00
3	..	30·035	77·5	52·3	64·7	53·2	100·5	47·7	65·2	62·5	11·5	18·9	5·0	+ 3·4	SW	S	0·0	0·0	0·0	30	0·00
4	..	29·900	83·7	57·5	68·0	58·6	102·3	43·5	67·0	63·8	9·4	18·9	6·4	+ 6·6	SE	SE	0·0	0·0	0·0	35	0·00
5	..	29·760	90·3	58·1	75·6	59·7	116·0	50·0	69·5	66·0	15·9	27·5	4·4	+14·1	SE	SE; E	0·0	0·0	0·0	30	0·00
6	..	29·716	88·7	61·0	73·5	61·2	113·3	50·0	71·2	67·5	12·3	25·8	5·6	+11·9	Calm	E; NE	0·0	0·0	0·0	40	0·00
7	..	29·846	83·2	58·1	69·8	57·9	109·5	48·5	72·2	68·4	11·9	21·8	2·9	+ 8·1	NE	NE	0·0	0·0	0·0	30	0·00
8	In Equator	29·901	83·5	51·6	67·9	55·8	110·5	41·0	71·6	69·2	12·1	22·5	5·6	+ 6·1	NE	E	0·0	0·0	0·0	25	0·00
9	Last Quarter Apogee	29·852	89·0	55·3	70·9	61·4	121·5	47·0	72·0	69·8	9·5	26·9	4·4	+ 9·0	E	Calm	0·0	0·0	0·0	20	0·00
10	..	29·938	85·0	59·5	70·5	59·7	110·0	50·0	72·5	70·5	10·8	21·2	4·3	+ 8·5	Calm	N; NNE	0·0	0·0	0·0	40	0·00
11	..	29·999	81·4	52·7	63·4	58·5	108·2	44·0	72·5	70·6	4·9	17·9	4·0	+ 1·3	NE	ENE	0·0	0·0	0·0	60	0·00
12	..	29·931	78·7	57·1	64·5	59·2	101·8	51·0	73·0	70·8	5·3	14·6	4·3	+ 2·4	NE	E	0·0	0·0	0·0	50	0·00
13	..	29·930	81·3	55·5	67·2	58·9	104·5	49·5	73·2	71·0	8·3	17·1	4·6	+ 4·6	NE	NE	1·5	0·0	0·2	60	0·00
14	..	29·942	82·2	58·3	67·5	60·9	107·3	52·0	73·4	71·0	6·6	16·7	4·8	+ 5·4	NE	E	1·8	0·0	0·2	40	0·00
15	..	29·778	87·4	60·0	72·0	62·1	116·0	52·5	..	70·5	9·9	22·7	2·3	+ 9·9	Calm	S; SW	0·0	0·0	0·0	40	0·00
16	Greatest Declination N.	29·723	84·2	55·7	69·8	59·7	115·3	48·0	..	71·6	10·1	18·6	6·2	+ 7·7	SW; Calm	ENE	5·0	0·0	0·1	80	0·00
17	New	29·645	78·0	62·0	66·7	61·9	110·0	60·0	..	71·2	4·8	12·2	4·1	+ 4·6	Variable	SW	0·0	0·0	0·0	20	0·27
18	..	29·761	80·2	54·3	62·5	55·9	107·2	44·0	..	70·8	6·6	20·9	3·6	+ 0·5	SW	SW	0·0	0·0	0·0	150	0·00
19	..	29·849	78·7	53·9	65·0	56·4	103·3	46·5	..	70·6	8·6	18·6	1·2	+ 3·1	S	S	0·0	0·0	0·0	100	0·00
20	..	29·914	73·8	58·7	64·5	57·9	100·2	49·0	..	70·2	6·6	12·8	4·3	+ 2·8	SW	SW	0·0	0·0	0·0	75	0·00
21	..	29·872	80·8	57·7	66·9	56·3	106·7	51·5	..	69·8	10·6	22·2	3·8	+ 5·5	SW	W	0·8	0·0	0·1	120	0·01
22	In Equator Perigee	29·946	80·3	54·8	65·8	53·8	110·3	47·0	..	69·0	12·0	23·0	5·2	+ 4·6	SW	W; N	0·0	0·0	0·0	75	0·00
23	..	29·976	81·0	49·2	63·7	53·0	103·3	38·0	..	69·2	10·7	27·0	4·3	+ 2·5	N	E	0·0	0·0	0·0	80	0·00
24	First Qr.	29·792	80·0	54·1	66·6	55·4	110·0	44·5	..	69·5	11·2	19·7	4·6	+ 5·4	ENE	E	3·0	0·0	0·5	75	0·00
25	..	29·572	76·0	57·3	64·8	59·8	99·3	48·8	..	69·2	5·0	10·5	2·7	+ 3·6	NNE	Variable	0·0	0·0	0·0	50	1·99
26	..	29·538	77·2	59·7	65·3	59·6	94·4	57·5	..	69·2	5·9	14·9	2·3	+ 4·2	Variable	SW; E; NE	0·0	0·0	0·0	70	0·05
27	..	29·796	79·5	57·7	67·1	58·3	100·3	52·0	..	69·0	8·8	15·8	4·9	+ 5·8	NE	NE	2·3	0·0	0·1	100	0·00
28	..	29·908	80·3	55·5	65·8	55·1	103·7	46·5	..	68·6	10·7	20·6	5·0	+ 4·4	N	N	3·0	0·0	0·3	100	0·00
29	Greatest Declination S.	29·916	78·8	57·7	66·3	54·6	103·9	57·5	72·0	68·5	11·7	22·1	5·1	+ 4·9	N	N; Calm	0·0	0·0	0·0	40	0·00
30	..	29·943	76·0	51·2	63·6	52·7	102·8	42·0	72·0	68·4	10·9	19·1	2·1	+ 2·2	N	N	0·0	0·0	0·0	5	0·00
31	Full	29·934	81·7	50·2	67·0	58·4	105·1	43·0	71·5	68·0	8·6	21·9	4·4	+ 5·6	Calm	Calm	0·0	0·0	0·0	20	0·00
Aug. 1	..	29·859	81·5	55·3	70·8	54·3	104·5	45·0	72·0	68·5	16·5	23·9	4·4	+ 9·4	Calm	WSW	0·0	0·0	0·0	35	0·00
2	..	29·639	81·3	55·7	67·7	52·0	108·8	46·0	72·0	68·8	15·7	24·3	5·7	+ 6·3	Calm; WSW	SW	0·0	0·0	0·0	30	0·00
3	..	29·241	70·3	54·5	61·0	50·9	79·0	47·0	71·4	68·2	10·1	17·6	4·5	— 0·4	Calm; S	S; SW	4·0	0·0	0·5	135	0·30
4	..	29·251	71·2	49·9	59·6	50·2	93·0	42·0	70·8	67·6	9·4	14·9	3·4	— 1·9	SW	SW; S	5·0	0·0	0·8	140	0·19
5	In Equator	29·229	72·7	52·4	61·6	49·7	92·5	48·0	70·0	66·8	11·9	17·9	3·2	+ 0·1	S	S	3·0	0·0	0·6	130	0·00
6	Apogee	29·247	69·5	50·8	59·8	49·9	90·0	47·0	69·8	66·5	9·9	14·7	5·0	— 1·7	S	S	5·0	0·0	1·2	160	0·25
7	..	29·187	74·0	55·3	62·3	52·9	97·0	53·0	69·2	66·0	9·4	15·9	3·2	+ 0·8	S	SSW	5·5	0·0	1·3	185	0·27
8	Last Qr.	29·317	71·8	53·1	62·2	51·3	87·8	51·0	68·8	66·0	10·9	14·9	5·0	+ 0·7	SW	S	5·0	0·0	1·2	105	0·20
9	..	29·387	70·0	53·9	59·1	51·0	86·2	50·0	68·4	65·5	8·1	10·8	2·2	— 2·3	S; SW	SW	0·0	0·0	0·0	75	0·24
10	..	29·493	74·0	50·7	61·0	49·1	97·2	42·0	68·0	65·0	11·9	17·1	4·4	— 0·4	SW	SW; S	1·2	0·0	0·1	90	0·00
11	..	29·075	67·8	52·7	58·1	52·8	76·3	46·0	67·5	64·6	5·3	8·1	2·2	— 3·3	SE	S; SW	15·6	0·0	3·1	more than 380	0·42
12	Greatest Declination N.	29·251	60·0	53·7	54·3	50·9	63·0	54·0	66·0	62·0	3·4	7·2	3·0	— 7·1	SW	SW	6·0	0·0	1·5	150	0·55
13	..	29·548	73·2	53·7	62·0	49·4	91·5	50·0	65·5	61·5	12·6	17·3	2·0	+ 0·6	SSW	W	2·5	0·0	0·3	110	0·07
14	..	29·592	74·4	51·1	61·4	49·3	95·0	46·0	65·6	61·5	12·1	17·9	4·8	0·0	SW	W; S	0·0	0·0	0·0	70	0·00
15	New	29·462	70·3	55·7	60·1	55·6	76·2	53·0	65·4	62·0	4·5	13·5	3·6	— 1·2	E; N	N	4·0	0·0	0·3	45	1·08
16	..	29·813	68·2	50·5	60·8	52·2	75·0	43·0	64·8	62·5	8·6	11·2	4·4	— 0·4	N; Calm	SSE; SSW	3·0	0·0	0·4	115	0·00
17	..	29·708	75·2	61·3	65·7	55·5	82·0	58·8	65·8	62·0	10·2	15·9	2·2	+ 4·6	SSW	SE	4·0	0·0	0·2	60	0·42
18	Perigee In Equator.	29·674	72·0	59·4	63·1	54·1	79·7	56·0	66·6	62·8	9·0	14·6	2·5	+ 2·1	SW	SW; S	0·0	0·0	0·0	20	0·35
19	..	29·795	71·5	54·0	61·1	53·4	94·0	47·0	66·5	62·6	7·7	13·2	2·0	+ 0·2	Calm	N	0·0	0·0	0·0	40	0·05
20	..	29·907	63·5	56·5	58·4	51·7	69·0	47·0	66·5	63·4	6·7	8·8	3·9	— 2·3	N	NW	0·0	0·0	0·0	45	0·01
21	..	30·034	75·6	58·5	63·7	55·4	85·0	56·0	66·5	62·5	8·3	15·3	5·6	+ 3·1	NW	NNW	0·0	0·0	0·0	75	0·00
22	First Qr.	30·008	75·5	59·3	63·7	57·1	98·0	55·0	67·0	64·0	6·6	14·1	3·8	+ 3·2	NNW	NNW	1·0	0·0	0·1	45	0·00
23	..	30·110	74·4	54·5	63·1	54·8	92·0	46·0	67·4	64·4	8·3	13·8	2·4	+ 2·7	NNW	N; Calm	0·0	0·0	0·0	5	0·00
24	..	29·977	71·0	54·9	62·2	55·3	80·5	49·0	67·0	64·2	6·9	11·1	3·2	+ 1·9	Calm	SW	0·0	0·0	0·0	45	0·10

MONTH and DAY, 1852.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
June 28	o	o	5, cu.-s, ci.-s, li.-r	7, cu.-s, ci.-s, li.-r
29	o : o : w	w : o : o	10, cu.-s, ci.-s	10, cu.-s, ci.-s : o
30	o	m : o : o	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : o
July 1	o	m	5, ci.-s, li.-cl : o	o
2	o	m	4, ci.-s, li.-cl : o	o
3	m	m	o	o
4	o	o : m	o	o
5	m	m	o	o
6	o	o	o	o
7	v	v	o	o
8	o : m : o	m	o	o
9	v	v	o	7, cu, ci.-cu : o
10	s	s	o	5 : o
11	o	o	o	o
12	o	o	10, cu, ci.-cu, s	v, cu, ci.-cu, s
13	o	o	7, ci.-s : o	o : 10, l
14	o	o	10	o
15	o	v	7	v : o
16	m	m : o : o	10	o : 10, l, t, h.-r
17	o	o	10, r	10
18	m	m	7, cu.-s : o	o
19	o : o : m	m	7, cu.-s, ci.-s : r	7, cu.-s, ci.-s
20	o : o : m	v	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s
21	v	v	10, r	o
22	o : o : w	w	7 : o	o
23	v	o : v : o	o	o
24	o : w	o	4, ci.-cu, ci.-s, li.-cl	4, ci.-cu, ci.-s : 10, ci.-cu, ci.-s
25	s P, N, sps, g. cur	s P, N, sps, g. cur	o : v, h.-r	v : 10
26	o	w : o	10, cu.-s, ci.-s	10, cu.-s, ci.-s : shs.-r
27	o : o : w	w : o	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : o
28	o : o : w	m	o	10, ci.-cu, ci.-s
29	o : o : s	s	7	v
30	s	s	10, cu.-s, ci.-s	o
31	v	v	o	10, ci.-cu, ci.-s
Aug. 1	o	o : m	o	o
2	o : s	s	o	4, ci.-cu, ci.-s
3	s P, N, sps, g. cur	o	v : 10, cu, ci.-cu	10, cu, ci.-cu, ci.-s, h.-r
4	o	w	5, h.-shs.-r	5 : o
5	o : o : w	m : o	5, cu.-s, ci.-s	5, cu.-s, ci.-s
6	s P, N, sps, g. cur	o	v, cu, cu.-s, ci.-s, t	v, cu, cu.-s, ci.-s, h.-shs.-r
7	o	o	7, cu.-s, ci.-s, sc, h.-r	7, cu.-s, ci.-s, sc : v
8	o	o : m	v, cu.-s, ci.-s, shs.-r	v, cu.-s, ci.-s, shs.-r
9	s N, sps	s N, sps : o	7, cu, cu.-s, ci.-s, shs.-r	7, cu, cu.-s, ci.-s, l, t, shs.-r
10	o	s P, N, sps, g. cur : o	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : o
11	o	o	10, sqs.-w.-r	10, sqs.-w.-r
12	o	o	10, r	10, r
13	o	o	7, cu, cu.-s, li.-cl	7, cu, cu.-s, li.-cl
14	o	s P, sps, g. cur : o	2, cu, ci.-cu	2, cu, ci.-cu : 10, ci.-s, t
15	o	o	10, h.-r	10 : o
16	o	o	10, ci.-s	10, ci.-s
17	o	o	10, cu, cu.-s, ci.-s	9, cu, cu.-s, ci.-s : 10, t-s, h.-r
18	o	o	10, ci.-cu, ci.-s, sc	10, ci.-cu, ci.-s, sc
19	o	w : o	10, cu.-s, ci.-s, sc, r	10, cu.-s, ci.-s, sc. : v
20	o	o	10, sc, r	10, oc.-r
21	o	o	10, ci.-cu, ci.-s	v
22	o	o	10, cu, ci.-s : o	o
23	o	o	10, cu.-s, ci.-s, h	5, cu.-s, ci.-s, h : 10
24	o	o	10, ci.-s, oc.-r	10, ci.-s, oc.-r

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A.M.	Lowest on the Grass, as shewn by a self-Registering Thermometer read at 9h A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Wind as deduced from Anemometers. Osler's. General Direction. P. M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°				lbs.	lbs.	lbs.	miles.	in.
Aug. 25	Greatest Declination S.	29·784	74·0	59·9	65·0	55·2	98·0	52·0	67·6	64·0	9·8	15·0	5·3	+ 4·8	SW	SW	4·0	0·0	0·6	95	0·00
26	..	29·885	75·0	58·7	64·1	56·6	96·5	53·0	67·5	64·6	7·5	13·1	3·6	+ 3·9	Calm; E	NE	0·0	0·0	0·0	60	0·00
27	..	30·006	77·5	55·5	66·5	55·0	103·0	46·5	67·8	64·8	11·5	16·8	3·6	+ 6·4	NE	NE; E	0·0	0·0	0·0	50	0·00
28	..	29·898	79·5	53·9	64·7	58·3	104·0	45·5	68·2	64·8	6·4	16·7	2·6	+ 4·7	N	Calm	0·0	0·0	0·0	65	0·00
29	Full	29·963	71·0	57·5	63·1	53·1	104·3	50·5	68·5	65·4	10·0	13·8	4·6	+ 3·1	SW	S	0·0	0·0	0·0	70	0·00
30	..	29·895	73·5	53·1	61·5	49·4	104·0	42·0	68·8	65·0	12·1	16·7	5·6	+ 1·6	SE; SW	SW	2·5	0·0	0·3	150	0·00
31	..	29·893	70·0	50·7	58·9	46·7	93·0	43·5	67·6	64·5	12·2	17·4	4·0	— 0·9	SW	SW; S	1·0	0·0	0·1	95	0·00
Sep. 1	In Equator	30·017	73·6	51·5	61·2	52·4	94·5	42·5	67·2	64·2	8·8	16·5	5·3	+ 1·5	S	SW	1·0	0·0	0·1	65	0·00
2	..	30·099	76·5	47·8	63·4	50·8	105·0	39·0	67·5	64·5	12·6	18·3	2·2	+ 3·8	Calm	Calm; SE	0·0	0·0	0 0	20	0·00
3	Apogee	30·035	75·3	50·7	64·3	52·6	99·3	41·5	67·8	64·8	11·7	20·9	4·4	+ 4·8	Calm; SE	E	0·0	0·0	0·0	50	0·00
4	..	29·952	77·5	51·8	64·7	55·7	100·5	42·5	67·8	64·8	9·0	18·5	3·4	+ 5·4	Calm	E	0·0	0·0	0·0	40	0·00
5	..	29·841	75·5	54·6	63·6	57·0	88·0	44·0	67·5	65·0	6·6	16·4	4·0	+ 4·4	Calm	Calm	0·0	0·0	0·0	15	0·01
6	Last Qr.	29·834	70·0	55·3	61·8	55·2	85·2	46·0	67·4	65·0	6·6	10·5	3·6	+ 2·7	N	N	0·0	0·0	0·0	15	0·01
7	..	29·810	65·0	55·7	57·7	55·1	70·0	51·0	67·2	64·6	2·6	5·8	1·8	— 1·2	W	Calm	0·0	0·0	0·0	35	0·26
8	Greatest Declination N.	29·845	68·0	56·7	60·6	55·2	77·0	47·2	67·0	64·5	5·4	10·1	3·2	+ 1·8	NE	NE	5·0	0·0	0·6	130	0·97
9	..	29·785	70·2	56·8	61·4	55·1	79·0	49·0	66·5	63·8	6·3	9·6	3·0	+ 2·7	NE	NE	3·0	0·0	0·1	90	0·04
10	..	29·689	68·0	57·7	60·9	55·3	72·5	50·5	66·2	62·6	5·6	9·6	3·0	+ 2·3	N	N	3·5	0·0	0·4	140	0·11
11	..	29·716	67·5	54·2	58·6	50·5	74·0	50·0	65·8	62·0	8·1	13·9	4·3	+ 0·1	N	NW	1·0	0·0	0·0	95	0·00
12	..	29·748	66·0	50·5	57·6	46·0	86·0	40·5	65·0	61·0	11·6	14·9	7·9	— 0·7	WSW	WNW	3·0	0·0	0·5	85	0·00
13	New	29·784	68·0	47·8	57·4	46·4	92·5	38·5	64·5	60·5	11·0	15·4	6·4	— 0·8	SW	NW	0·0	0·0	0·0	30	0·00
14	..	29·771	62·7	48·7	54·9	39·3	83·0	43·0	64·0	60·5	15·6	18·4	7·0	— 3·4	W	NW; Calm	0·0	0·0	0·0	10	0·00
15	Perigee In Equator	29·352	61·0	48·7	52·9	47·9	65·5	42·2	63·5	59·8	5·0	10·3	3·4	— 5·1	Calm	SW	1·0	0·0	0·0	80	0·10
16	..	29·617	62·0	45·5	52·2	42·2	88·0	40·0	63·0	59·4	10·0	15·5	4·8	— 5·6	NW	N	0·0	0·0	0·0	..	0·00
17	..	29·711	65·0	37·9	52·0	40·2	84·5	31·5	62·5	58·6	11·8	19·2	7·7	— 5·4	Calm	NE	0·0	0·0	0·0	10	0·00
18	..	29·305	66·5	41·5	53·4	50·6	70·0	32·8	61·6	58·0	2·8	7·0	0·0	— 3·7	NE	SE; SW	5·0	0·0	0·5	80	0·75
19	..	29·346	60·2	52·0	54·3	47·9	70·0	48·0	61·2	57·6	6·4	7·0	4·2	— 2·4	S; N	N; Calm	0·0	0·0	0·0	30	0·22
20	First Qr.	29·417	64·8	49·0	56·0	49·3	73·5	43·5	61·0	56·8	6·7	9·6	4·4	— 0·3	Calm; SW	SW	4·0	0·0	0·6	180	0·25
21	Greatest Declination S.	29·479	59·0	45·7	49·0	40·4	78·5	42·0	59·5	55·5	8·6	15·1	5·5	— 6·9	SW; W	W	7·0	0·0	2·0	75	0·10
22	..	30·241	63·8	38·6	52·7	40·5	88·5	30·0	58·0	55·0	12·2	17·5	3·3	— 2·9	SW	W	0·0	0·0	0·0	35	0·00
23	..	30·323	62·0	48·7	54·4	50·0	73·8	42·8	58·0	54·8	4·4	8·1	0·0	+ 0·9	SW	Calm	0·0	0·0	0·0	..	0·00
24	..	30·290	70·0	45·8	57·7	51·8	91·0	38·2	58·0	55·2	5·9	12·8	0·0	+ 2·6	Calm	Calm	0·0	0·0	0·0	..	0·00
25	..	30·016	68·0	45·8	56·1	50·0	83·5	37·0	58·2	55·5	6·1	11·8	0·6	+ 1·3	Calm	E	0·0	0·0	0·0	15	0·00
26	..	29·787	62·0	46·8	53·2	49·0	73·5	38·6	57·9	55·5	4·2	9·0	0·6	— 1·4	Calm	NNE	0·0	0·0	0·0	15	0·00
27	..	29·705	64·0	46·7	54·9	49·7	78·0	39·5	58·0	55·4	5·2	9·3	0·2	+ 0·5	Calm	NE	0·0	0·0	0·0	..	0·00
28	In Equator Full	29·102	62·5	51·9	54·0	51·4	66·0	39·8	57·9	55·4	2·6	7·9	1·6	— 0·1	NE	NE; SE	1·0	0·0	0·0	5	0·94
29	..	29·125	63·2	47·8	54·0	45·0	72·0	45·0	57·7	55·4	9·0	13·1	3·6	+ 0·2	SSW	SSW; S	7·0	0·0	2·6	70	0·17
30	Apogee	29·442	60·0	40·9	50·6	39·0	80·0	38·5	57·3	54·5	11·6	18·1	3·8	— 3·0	Variable	WSW	6.0	0·0	3·0	165	0·00
Oct. 1	..	29·391	57·0	40·6	49·3	40·3	67·5	36·5	56·5	54·2	9·0	15·0	4·0	— 4·1	S; N	SSW	0·0	0·0	0·0	..	0·13
2	..	29·268	64·0	43·5	50·6	42·9	72·5	44·0	53·3	53·5	7·7	15·6	1·3	— 2·6	SW	SW	4·5	0·0	0·7	..	0·07
3	..	29·650	58·8	43·0	50·2	40·3	76·2	35·7	54·5	53·0	9·9	16·4	3·5	— 2·8	SW	WSW	4·5	0·0	1·5	..	0·01
4	..	29·308	55·5	48·5	50·3	48·0	57·0	30·2	53·5	52·0	2·3	5·6	0·5	— 2·5	SW; SE	SSE; SSW	10·0	0·0	2·4	..	1·01
5	..	29·044	60·2	47·7	51·9	43·9	73·5	42·5	53·3	50·5	8·0	13·2	4·5	— 0·7	SW	WSW	9·0	0·0	4·2	..	0·07
6	Greatest Dec. N. Last Quarter	29·467	49·0	41·4	43·7	41·6	52·5	32·1	..	..	2·1	6·8	0·0	— 8·6	SW	NW; N	4·0	0·0	0·2	..	0·00
7	..	29·710	55·5	41·2	46·3	35·0	62·0	31·0	..	..	11·3	17·4	5·0	— 5·7	WSW; NW	NW	4·0	0·0	1·5	..	0·00
8	..	29·732	46·0	33·5	39·8	30·9	60·5	28·5	..	..	8·9	16·8	4·0	—12·0	WSW; NW	N; NW	0·0	0·0	0·0	130	0·00
9	..	29·824	49·0	34·3	41·7	33·6	71·0	24·0	..	..	8·1	16·1	3·5	— 9·8	NNW	NNW	0·0	0·0	0·0	75	0·00
10	..	29·876	55·5	35·5	46·1	39·4	69·0	26·5	..	..	6·7	11·0	3·0	— 5·1	SSW	NNW	0·0	0·0	0·0	90	0·03
11	..	30·006	58·0	42·5	50·3	45·5	72·0	32·0	..	..	4·8	10·5	2·5	— 0·5	SW; N	N	0·0	0·0	0·0	50	0·00
12	In Equator	30·229	58·8	38·5	48·1	41·6	71·0	32·0	..	..	6·5	13·8	2·8	— 2·5	N	N	0·0	0·0	0·0	85	0·00
13	New Perigee	30·226	55·5	39·5	47·5	42·9	57·0	28·0	..	..	4·6	9·6	1·6	— 2·7	NNE	NE	0·0	0·0	0·0	50	0·00
14	..	30·174	54·5	44·2	48·8	44·2	56·5	33·0	..	..	4·6	8·4	3·0	— 1·0	NE	NE	0·0	0·0	0·0	45	0·00
15	..	30·129	55·8	45·0	49·3	41·6	57·5	36·5	..	..	7·7	10·6	4·0	— 0·2	NE	ENE	2·0	0·0	0·4	65	0·00
16	..	30·114	52·5	43·5	47·3	41·4	59·0	38·5	..	..	5·9	10·0	3·5	— 1·9	ENE	NE	0·0	0·0	0·0	90	0·00
17	..	30·043	59·0	31·0	47·1	40·3	78·0	25·2	..	..	6·8	13·0	..	— 1·8	NE	NE; E	0·0	0·0	0·0	65	0·00
18	Greatest Declination S.	30·125	59·0	40·8	48·8	42·0	78·0	31·5	..	..	6·8	13·5	3·1	+ 0·3	N	N	0·0	0·0	0·0	40	0·00
19	First Qr.	30·333	56·0	37·0	45·8	41·0	70·0	29·0	49·0	48·3	4·8	8·4	0·0	— 2·4	Calm	SW; S	0·0	0·0	0·0	10	0·00
20	..	30·139	61·0	34·6	48·7	41·0	77·0	28·7	49·0	48·3	7·7	13·3	1·8	+ 0·9	SW	S	0·0	0·0	0·0	40	0·00
21	..	29·838	60·0	38·3	51·1	43·7	68·5	28·5	48·8	48·3	7·4	12·0	3·3	+ 3·6	Calm	SW; Calm	0·0	0·0	0·0	15	0·00
22	..	29·580	61·8	50·3	55·9	52·3	62·5	45·0	48·8	48·7	3·6	6·5	2·7	+ 8·6	SE	SSE; SSW	0·0	0·0	0·0	140	0·35

October 1 to 7. Whewell's Anemometer was under repair.

MONTH and DAY, 1852.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Aug. 25	o	o	5, cu.-s, ci.-s, sc	5, cu.-s, ci.-s, sc : 10
26	o	o	7	7 : o
27	o	o	7, cu.-s, ci.-s	o
28	o	o	10, cu, ci.-cu : 5, cu, ci.-s	v : o
29	o	o	4, cu, ci.-s	o
30	o	o	7, cu, cu.-s, h	o
31	o	o	o : 10, li.-sh.-r	o
Sep. 1	o	o	10	7 : o
2	o	m : o	o, h	o, h
3	o	o	o	o
4	o	o	o	4, cu, cu.-s, h : o
5	o	o	10, cu	o : 10
6	o	o	10, ci.-s	10, ci.-s : r
7	o	o	10	10 : t.-s, h.-r
8	s, N : o	o	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s : l
9	o	o	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s : v
10	o	o	10, ci.-s, sc, r	7, ci.-s, sc : o, l
11	o	o	5, cu.-s, ci.-s	10, cu.-s, ci.-s : v
12	o	o	7, cu.-s, ci.-s	7, cu.-s, ci.-s : o
13	o	o	10, cu, ci.-cu, ci.-s, h	10, cu, ci-cu, ci.-s, h
14	o	s, P : o	v, cu.-s, ci.-s, li.-cl, h	v, cu.-s, ci.-s, li.-cl : 10
15	o	s, N : o	10, ci.-s, r	10, ci.-s, r : o
16	o	o : m	v, cu, ci.-cu, ci.-s, h	v : o
17	o	o	4	4 : o
18	s, P, N	s, P, N	10, ci.-s, r	10, ci.-s, r
19	o	o	10, ci.-s, r	10, ci.-s
20	o	o	3, cu, cu.-s, ci.-s : 7	7, f.-shs.-r : v
21	o	o	10, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : o
22	m : o	o	o	5, cu, cu.-s : 10, ci.-s
23	o	o	th.-h	th.-h
24	o	o	th.-f	5 : o
25	o	o	o, h	o, h
26	o	o	10, f	10, f
27	o	o	10, f	10, f
28	o	o	10, r	10, r : th.-r
29	o	o	5 : sh.-r	5 : sh.-r
30	o	o	5	5 : 10
Oct. 1	o	o	v	10, ci.-s
2	o	o	v, r	v, r, l
3	o	o	10, r	10 : o
4	o	o	10, h.-r	10, h.-r
5	o	o	10	10 : o
6	o	o	10, th.-r	10
7	o	o	v	v : o
8	o	o	10	10 : f
9	o	o	v	v : o, th.-f
10	o	o	10, r	10 : o
11	o	o	10	10 : o
12	o	o	o	o
13	o	o	o : 10	10 : v
14	o	o	10	10 : o
15	o	o	10	10
16	o	o	10	10 : o
17	o	o	o	o
18	o	o	o	4 : o
19	o	o	th.-f : 10	o
20	o	o	o	o : 5, ci.-s
21	o	o	10, f	10, f
22	o	o	10, fr.-r	10, fr.-r

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Oct. 23	..	29·555	60·5	46·7	52·1	47·3	68·0	44·3	50·1	49·6	4·8	9·5	2·6	+ 4·8	SW	SW; S	0·0	0·0	0·0	110	0·07
24	..	29·494	59·5	45·1	49·4	43·0	75·0	38·0	50·0	49·2	6·4	12·6	5·3	+ 2·2	SW	SW; S	1·0	0·0	0·0	135	0·09
25	..	29·208	48·0	43·4	45·2	41·3	52·0	47·9	50·3	48·7	3·9	5·3	1·8	— 1·8	S; N	NW; W	3·0	0·0	0·5	155	0·92
26	In Equator	28·970	50·8	36·4	43·7	38·9	53·5	29·0	49·1	46·5	4·8	7·6	1·6	— 3·1	WSW; SSE	SSE	6·0	0·0	0·8	155	0·46
27	Full. Apogee	28·873	47·0	36·5	41·6	38·5	52·3	29·8	47·8	45·5	3·1	6·4	1·3	— 5·2	SE; NNW	W; NW	2·0	0·0	0·3	130	0·17
28	..	29·317	49·5	42·7	46·0	39·7	49·5	38·7	47·1	45·0	6·3	7·2	0·0	— 0·7	NW	NW	3·0	0·0	0·4	10	0·01
29	..	29·542	48·0	35·3	41·0	35·7	54·5	28·3	45·7	43·7	5·3	8·7	3·5	— 5·7	NW; SW	ESE	1·0	0·0	0·0	135	0·20
30	..	29·545	61·0	44·0	52·6	45·8	65·5	36·5	46·2	44·9	6·8	8·9	3·9	+ 5·9	SW	SW	3·0	0·0	0·6	160	0·16
31	..	29·587	61·0	50·5	54·6	47·8	72·0	43·5	47·9	46·0	6·8	9·0	4·4	+ 7·9	SW	S	3·6	0·0	0·9	230	0·00
Nov. 1	..	29·614	62·1	50·5	57·2	53·0	72·0	43·8	47·6	46·3	4·2	7·6	3·5	+10·5	S	SW	4·8	0·0	1·0	190	0·00
2	Greatest Declination N.	29·447	60·7	53·6	56·8	53·4	60·0	48·3	47·1	47·3	3·4	5·9	2·8	+10·2	SW	SW	6·0	0·0	1·0	200	0·45
3	..	29·534	59·0	49·7	53·2	46·4	60·0	44·5	51·6	50·5	6·8	9·7	4·6	+ 6·6	SW	SW	3·0	0·0	0·7	150	0·28
4	..	29·686	58·0	41·4	50·3	43·2	65·0	33·2	51·4	50·4	7·1	10·8	4·3	+ 3·8	SW	SE	0·0	0·0	0·0	135	0·00
5	Last Qr.	29·296	63·8	47·2	56·2	47·3	67·0	35·8	51·2	50·5	8·9	10·7	5·3	+ 9·8	SE; S	S; WSW	6·0	0·0	1·7	195	0·01
6	..	29·711	60·2	43·0	51·2	43·4	65·5	35·5	51·0	50·5	7·8	12·4	4·8	+ 5·0	SW	SW	12·0	0·0	2·0	295	0·10
7	..	29·817	59·0	53·8	56·9	49·7	59·0	48·0	51·4	50·5	7·2	8·2	6·3	+10·9	SW	SW	7·5	1·5	4·4	295	0·20
8	..	29·976	62·5	53·0	58·3	52·8	67·5	47·5	52·6	51·1	5·5	6·3	4·9	+12·5	WSW	WSW	6·0	0·0	3·5	240	0·00
9	In Equator	30·025	60·7	52·8	55·9	51·5	65·0	53·2	53·5	51·7	4·4	8·1	4·2	+10·3	W; WSW	SW	2·5	0·0	0·1	130	0·00
10	..	29·915	54·8	43·0	47·8	40·3	68·0	43·0	53·0	51·9	7·5	9·5	3·6	+ 2·4	Calm; NE	NE; ENE	0·0	0·0	0·0	80	0·00
11	Perigee New	29·430	54·0	41·4	48·2	43·4	59·0	42·0	52·8	50·9	4·8	7·5	3·1	+ 3·0	ENE; SE	SE	2·0	0·0	0·1	140	0·27
12	..	29·448	54·9	44·1	46·7	41·9	58·0	46·0	52·1	49·2	4·8	6·4	0·0	+ 1·7	NE	ENE	9·6	0·0	3·3	225	0·82
13	..	29·702	49·2	43·0	44·7	41·0	55·0	46·0	50·1	47·5	3·7	7·9	0·0	— 0·1	E	Calm	7·0	0·0	0·9	160	0·01
14	..	29·196	54·0	44·3	48·7	45·4	58·0	41·0	48·5	47·3	3·3	7·0	3·0	+ 4·1	Calm	S	0·0	0·0	0·0	215	0·35
15	Greatest Declination S.	28·940	57·7	49·8	52·8	47·8	61·2	43·0	49·3	47·5	5·0	8·9	2·7	+ 8·4	SSE	SW; SE	0·0	0·0	0·0	70	0·32
16	..	28·801	60·0	50·6	53·0	49·8	67·0	46·2	50·1	48·2	3·2	9·9	2·0	+ 8·8	S	SSW	6·0	0·0	0·8	215	0·37
17	..	29·042	55·5	49·8	50·0	43·5	58·0	43·2	50·1	48·7	6·5	12·8	5·3	+ 6·0	S	S	5·0	0·0	0·9	225	0·04
18	First Qr.	29·344	49·8	39·7	45·1	36·8	57·0	40·0	49·0	46·5	8·3	13·2	4·8	+ 1·2	SW	SW	0·0	0·0	0·0	85	0·28
19	..	29·514	53·6	36·7	45·8	40·5	58·5	30·7	47·1	45·5	5·3	7·9	4·4	+ 1·9	SE	SW	1·3	0·0	0·0	165	0·25
20	..	29·278	54·5	45·0	49·9	46·2	57·0	38·5	46·4	45·5	3·7	5·5	0·0	+ 6·1	SW	SE; SSW	1·0	0·0	0·0	115	0·16
21	..	28·997	55·0	46·3	50·8	46·8	56·0	40·0	46·9	46·0	4·0	5·4	3·1	+ 7·0	SSW; SE	Calm; N	1·5	0·0	0·0	60	0·15
22	In Equator	28·978	50·0	44·4	45·4	41·5	55·0	44·8	47·1	46·1	3·9	5·8	3·7	+ 1·7	N	NE; N	2·5	0·0	0·2	115	0·11
23	..	29·258	46·0	34·0	39·6	35·8	52·0	29·0	46·7	45·0	3·8	6·0	3·7	— 4·0	N; SW	SW; E	2·5	0·0	0·2	165	0·13
24	Apogee	29·466	48·2	41·4	45·8	40·0	54·0	33·0	45·9	43·9	5·8	7·9	3·9	+ 2·3	NNE	N	4·0	0·0	0·4	70	0·05
25	..	29·827	50·0	32·6	42·2	36·0	53·5	26·8	44·9	43·0	6·2	8·1	4·3	— 1·2	Calm	Calm; SE	7·0	0·0	0·5	175	0·02
26	Full	29·363	57·0	45·0	52·0	48·0	57·5	34·0	47·1	43·9	4·0	5·4	4·0	+ 8·8	S	SSW	10·0	0·0	4·2	240	1·00
27	..	29·684	51·0	40·6	44·3	36·9	58·0	35·4	48·0	45·3	7·4	11·6	4·8	+ 1·3	SW	SW	0·0	0·0	0·0	140	0·00
28	..	29·446	50·0	38·5	43·5	36·8	55·0	30·0	45·8	44·1	6·7	8·4	4·6	+ 0·7	S	SW; W	5·0	0·0	0·6	160	0·29
29	Greatest Declination N.	29·468	41·0	33·3	35·7	32·6	50·5	27·5	44·4	42·0	3·1	5·8	2·3	— 6·9	Calm	NNE	2·0	0·0	0·2	130	0·00
30	..	29·753	41·3	35·1	38·0	31·7	53·0	29·0	42·6	40·6	6·3	7·7	5·5	— 4·5	N	N	3·5	0·0	0·3	155	0·00
Dec. 1	..	29·796	46·0	31·7	40·6	34·1	50·0	25·0	40·9	40·2	6·5	10·4	2·8	— 1·8	Calm	S	0·0	0·0	0·0	155	0·01
2	..	29·776	48·2	41·5	44·2	37·8	54·4	28·8	41·1	40·2	6·4	9·2	4·1	+ 1·9	SW	SW	0·0	0·0	0·0	135	0·03
3	..	29·930	47·0	37·0	42·7	36·7	55·0	30·2	41·4	40·8	6·0	8·1	4·5	+ 0·5	SW	SSW	0·0	0·0	0·0	140	0·00
4	Last Qr.	29·802	55·2	45·7	51·8	46·0	58·0	32·5	43·0	40·8	5·8	6·4	5·0	+ 9·7	SSW	SW	5·0	0·0	1·8	290	0·00
5	..	29·795	55·5	51·3	53·1	48·3	58·0	46·0	46·2	43·0	4·8	6·8	2·6	+11·1	SW	SW	6·0	0·0	1·6	190	0·03
6	In Equator	29·681	54·5	45·8	48·9	43·4	55·0	47·2	48·0	45·0	5·5	8·4	3·9	+ 6·9	SW	SW	2·4	0·0	0·4	120	0·15
7	..	29·531	50·0	44·3	46·6	43·1	54·0	40·0	48·0	46·5	3·5	5·1	2·5	+ 7·7	S	SW; Calm	0·0	0·0	0·0	35	0·10
8	..	29·173	49·7	43·5	46·4	42·0	55·0	42·5	48·4	47·7	4·4	6·9	3·1	+ 4·5	Calm	SW	6·0	0·0	0·6	185	0·19
9	Perigee	29·475	50·8	39·3	45·5	39·9	53·5	34·0	47·6	45·7	5·6	7·9	3·6	+ 3·7	SW	SW; S	5·0	0·0	0·7	160	0·11
10	..	29·442	54·5	49·8	52·1	45·9	59·0	35·5	47·1	45·5	6·2	7·8	4·2	+10·4	SSW	SW	5·0	0·0	1·2	250	0·02
11	New	29·542	57·1	49·0	52·9	45·9	59·0	47·0	47·6	46·5	7·0	10·8	3·0	+11·3	SW	S by E	5·5	0·0	2·2	260	0·01
12	Greatest Declination S.	29·344	54·5	48·7	51·9	45·3	57·0	45·0	47·5	46·7	6·6	9·2	4·2	+10·4	SSE	S; SW	5·0	0·0	2·2	150	0·03
13	..	29·342	54·5	46·0	51·0	46·1	57·5	40·5	48·2	47·3	4·9	6·6	3·0	+ 9·6	Calm	S	0·0	0·0	0·0	160	0·17
14	..	29·277	55·5	45·7	50·8	44·5	60·0	42·5	48·5	47·7	6·3	8·6	1·2	+ 9·5	S	S	2·0	0·0	0·2	150	0·06
15	..	28·914	53·0	44·7	49·0	43·3	58·0	39·2	48·5	47·1	5·7	9·2	3·5	+ 7·9	S	SW	6·0	0·0	1·6	230	0·17
16	..	29·241	51·0	40·7	47·1	40·7	56·8	34·0	47·5	45·5	6·4	9·7	4·6	+ 6·2	SW	SW	7·5	0·0	1·3	310	0·09
17	..	29·063	53·0	45·2	49·0	40·2	57·0	39·0	46·4	45·5	8·8	10·7	5·3	+ 8·3	SW	SW	10·0	0·0	3·0	210	0·07
18	First Qr.	30·044	50·0	35·7	41·0	34·8	58·8	30·3	46·7	45·1	6·2	8·2	4·4	+ 0·7	NNW	Calm	9·6	0·0	0·9	100	0·00
19	In Equator	29·979	52·0	38·3	47·2	41·3	53·0	39·3	45·3	44·2	5·9	6·6	4·6	+ 7·2	S	S	4·0	0·0	1·5	215	0·00
20	..	29·693	56·0	44·5	51·4	43·6	57·0	38·5	45·3	44·2	7·8	8·8	5·7	+11·8	SSW	SSW	12·0	0·0	2·3	210	0·00

MONTH and DAY, 1852.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Oct. 23	o	o	10	10 : o
24	o	o	10, fr.-r	v : 10
25	o	o	10, r	10, r
26	o	o	10, r	10, r : o
27	o	o	10, r	10, r
28	o	o	10	10
29	o	o	10	10 : h.-r
30	o	o	5	v : 10
31	o	o	v, ci.-s, sc	v, ci.-s, sc
Nov. 1	o	o	10, ci.-s	10, ci.-s
2	o	o	10, ci.-s	10, ci.-s
3	o	o	10, r	10, r : 5
4	o	o	5, r	5 : o
5	o	o	10	3
6	o	o	o	10
7	o	o	10, r	10
8	o	o	10	10
9	o	o	10, ci.-cu, ci.-s	v, ci.-cu, ci.-s : 10
10	o	o	10, ci.-cu, ci.-s	v, ci.-cu, ci.-s : 10
11	o	o	10, r	v : 9, a
12	o	o	10, ci.-s, r	10, ci.-s, r
13	o	o	10	10 : r
14	o	o	10, r	10, r
15	o	o	10, ci.-cu, ci.-s, li.-cl	v, ci.-cu, ci.-s : 10, r
16	o	o	7	7, shs.-r : v
17	o	o	5, ci, sc, li.-cl	5, ci, sc, li.-cl
18	o	o	10, r : o	o
19	o	o	10	10 : h.-r
20	o	o	10, r	10, r
21	o	o	10, r	10, r
22	o	o	10, r	10, r
23	o	o	10	10 : h.-r
24	o	o	10, r	10, r
25	o	o	5	5 sh.-r : o
26	o	o	10, h, r	10, h.-r
27	o	o	4	4 : o
28	o	o	10, fr.-shs.	10, fr.-shs
29	o	o	5, ci.-s : 10	10
30	o	o	o	10, ci.-s, li.-cl, : m.-r
Dec. 1	o	o	5, s, ci, li.-cl	5 : 10
2	o	o	4, ci.-cu, ci.-s : 10	10, ci.-cu, ci.-s, li.-cl
3	o	o	10, ci.-s	10, ci.-s
4	o	o	10, ci.-s : r	10, ci.-s
5	o	o	10, m.-r	10, m.-r
6	o	o	10, fr.-r	10
7	o	o	10, fr.-r	10, fr.-r
8	o	o	10, r	10 : 7 : o
9	o	o	o : v	v, cu.-s, ci.-s, li.-cl
10	o	o	10, ci.-s, li.-cl	10, ci.-s, li.-cl : o : 10, m.-r
11	o	o	10, r	o
12	o	o	10, ci, ci.-s, m.-r	10, ci, ci.-s, m.-r
13	o	o	10, ci.-s, fr.-r	10, ci.-s, fr.-r
14	o	o	o	10, ci, ci.-s
15	o	o	10, cu.-s, ci.-s	5, cu.-s, ci.-s, : o
16	o	o	10, s, ci.-s, sc	10, s, ci.-s, sc : h.-r, l, t
17	o	o	v, ci.-s, sc, shs.-r	v : o : 10, l
18	o	o	o	o, f : 10, s, ci.-s
19	o	o	10	10
20	o	o	10	10 : o

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Dec. 21	Apogee	29·917	50·0	40·5	44·9	40·5	51·5	32·8	46·0	44·4	4·4	6·4	2·9	+ 5·6	WSW	SW	0·0	0·0	0·0	45	0·00
22	..	29·666	49·8	40·1	45·7	41·6	52·0	32·0	46·0	44·6	4·1	6·1	3·4	+ 6·7	Calm	Calm	0·0	0·0	0·0	45	0·05
23	..	29·668	45·7	37·2	39·8	34·8	50·0	36·6	45·3	44·4	5·0	6·3	4·0	+ 1·1	ESE	ESE	0·0	0·0	0·0	35	0·00
24	..	29·660	54·0	37·5	49·3	43·8	57·0	34·7	45·8	44·4	5·5	6·6	4·4	+11·0	Calm; S	SW	5·0	0·0	0·6	140	0·00
25	..	29·639	55·9	45·4	49·0	38·7	58·5	43·0	46·2	45·1	10·3	13·0	3·7	+10·9	SW	SW	14·5	0·0	2·6	170	0·00
26	Full	29·488	50·8	43·3	49·1	34·1	54·0	38·0	48·0	45·0	5·0	9·0	3·1	+11·2	SW	SSW	12·0	0·0	2·0	500	0·02
27	Greatest Declination N.	29·139	56·0	42·5	50·2	39·1	58·8	42·0	48·5	45·0	11·1	14·1	7·0	+12·5	SW	SW; SSW	24·0	0·0	10·0	215	0·40
28	..	29·523	48·5	39·8	43·2	37·0	56·5	37·2	48·0	44·4	6·2	11·7	4·1	+ 5·7	SSW	SW	0·0	0·0	0·0	75	0·00
29	..	29·623	50·8	35·0	45·4	38·7	58·0	28·7	..	43·2	6·7	9·0	5·0	+ 8·1	SSW; SSE	SW	0·0	0·0	0·0	240	0·01
30	..	29·810	53·0	45·9	49·2	39·7	54·2	39·8	..	43·5	9·5	11·0	6·4	+12·0	SW	SW	0·0	0·0	0·0	170	0·00
31	..	30·027	50·8	40·2	46·2	39·3	55·0	34·5	..	43·0	6·9	9·2	5·0	+ 9·2	SW	SW	0·0	0·0	0·0	165	0·00

Dec. 29 to 31. The clock of Osler's Anemometer was under repair: the direction of the wind was determined by shifting the traversing board several times each day during this interval.

MONTH and DAY, 1852.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Dec. 21	0	0	0	10 : 0
22	0	0	10, m.-r	10, m.-r
23	0	0	10	10
24	0	0	10	10
25	0	0	0	0 : 10
26	0	0	7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : 10, m.-r
27	0	0	10, h.-r	0 : 10
28	0	0	9, ci.-cu, ci.-s	10, ci.-cu, ci.-s : 0
29	0	0	10	10, m.-r : v
30	0	0	7, ci. cu, ci.-s	7, ci.-cu, ci.-s : 0
31	0	0	v, ci.-cu, s	v, ci.-cu, s

MAXIMA AND MINIMA READINGS OF THE BAROMETER.

The following table contains the highest and lowest readings of the Barometer, reduced to 32° Fahrenheit, extracted from the observations taken by the eye. There is good reason to believe that these readings do not differ much from the true maxima and minima, although the times may sometimes be sensibly erroneous.

MAXIMA.			MINIMA.			MAXIMA.			MINIMA.		
Approximate Mean Solar Time, 1852.		Reading.	Approximate Mean Solar Time, 1852.		Reading.	Approximate Mean Solar Time, 1852.		Reading.	Approximate Mean Solar Time, 1852.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	4. 21. 0	30·106	January	3. 9. 0	29·481	July	22. 21. 0	30·016	July	17. 0. 0	29·629
	7. 21. 0	29·728		6. 21. 0	29·447		30. 21. 0	29·958		26. 3. 0	29·522
	10. 0. 0	29·623		8. 21. 0	29·100	August	10. 9. 0	29·523	August	3. 9. 0	29·151
	17. 22. 0	30·241		12. 3. 0	28·925		15. 21. 0	29·830		11. 9. 0	29·010
	20. 21. 0	29·857		20. 3. 0	29·578		22. 21. 0	30·133		17. 9. 0	29·593
	23. 21. 0	29·721		22. 9. 0	29·188		27. 0. 0	30·018		25. 3. 0	29·774
	25. 21. 0	29·946		24. 9. 0	29·470	September	1. 21. 0	30·124		28. 9. 0	29·877
	28. 21. 0	29·975		27. 3. 0	29·374		13. 21. 0	29·821	September	10. 3. 0	29·668
February	3. 9. 0	30·008		31. 3. 0	29·592		16. 21. 0	29·726		15. 9. 0	29·273
	7. 0. 0	30·044	February	5. 9. 0	29·545		23. 21. 0	30·351		18. 9. 0	29·138
	11. 9. 0	30·007		8. 21. 0	29·020		30. 9. 0	29·552		28. 9. 0	28·884
	14. 9. 0	30·088		12. 21. 0	29·504	October	3. 9. 0	29·712	October	1. 21. 0	29·237
	22. 21. 0	30·531		17. 21. 0	29·491		19. 0. 0	30·358		4. 21. 0	28·898
March	5. 21. 0	30·655		28. 3. 0	29·485		28. 21. 0	29·635		26. 21. 0	28·743
	14. 21. 0	30·338	March	11. 3. 0	30·087		31. 9. 0	29·706		29. 9. 0	29·368
April	3. 0. 0	30·207		29. 21. 0	29·095	November	3. 21. 0	29·731	November	2. 3. 0	29·388
	20. 9. 0	30·024	April	17. 22. 0	29·632		8. 21. 0	30·069		5. 3. 0	29·249
	27. 21. 0	30·038		22. 9. 0	29·704		18. 21. 0	29·625		16. 0. 0	28·750
May	5. 21. 0	30·122		30. 3. 0	29·381		22. 21. 0	29·408		22. 3. 0	28·934
	14. 21. 0	29·973	May	13. 21. 0	29·444		25. 3. 0	29·916		23. 9. 0	28·989
	22. 22. 0	29·932		17. 21. 0	29·485		27. 9. 0	29·756		26. 3. 0	29·341
June	4. 21. 0	29·856		29. 9. 0	29·486	December	3. 0. 0	29·953		28. 9. 30	29·378
	12. 9. 0	29·612	June	7. 3. 0	29·342		11. 0. 0	29·559	December	8. 3. 0	29·161
	24. 9. 0	29·949		14. 0. 0	29·081		18. 9. 0	30·120		14. 21. 0	28·827
July	2. 21. 0	30·056		26. 0. 0	29·595		20. 21. 0	29·951		20. 3. 0	29·681
	10. 22. 0	30·019	July	5. 21. 0	29·705		30. 21. 0	30·061		26. 21. 0	29·019

READINGS OF THERMOMETERS SUNK IN THE GROUND.

(I.)—Reading of a Thermometer whose bulb is sunk to the depth of 25·6 feet (24 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·45	*S*	50·10	49·47	48·84	48·64	48·82	*S*	50·25	51·25	52·07	52·22
2	51·43	50·84	50·07	49·44	*S*	48·64	48·83	49·37	50·35	51·32	52·09	52·22
3	51·44	50·75	50·04	49·42	48·82	48·63	48·85	49·39	50·40	*S*	52·08	52·23
4	*S*	50·73	50·03	*S*	48·80	48·64	*S*	49·41	50·43	51·34	52·13	52·25
5	51·40	50·72	50·02	49·38	48·79	48·65	48·85	49·42	*S*	51·45	52·12	*S*
6	51·38	50·67	50·00	49·36	48·77	*S*	48·87	49·46	50·48	51·44	52·15	52·22
7	51·37	50·66	*S*	49·33	48·77	48·65	48·87	49·48	50·49	51·48	*S*	52·17
8	51·35	*S*	49·96	49·32	48·77	48·66	48·89	*S*	50·54	51·49	52·15	52·19
9	51·30	50·59	49·94	Good Friday	*S*	48·64	48·90	49·53	50·58	51·53	52·15	52·15
10	51·27	50·55	49·90	49·26	48·74	48·63	48·92	49·57	50·60	*S*	52·15	52·15
11	*S*	50·54	49·88	*S*	48·75	48·63	*S*	49·58	50·64	51·58	52·16	52·18
12	51·27	50·52	49·86	49·22	48·70	48·64	48·93	49·61	*S*	51·62	52·16	*S*
13	51·23	50·47	49·87	49·22	48·70	*S*	48·98	49·65	50·70	51·64	52·22	52·15
14	51·24	50·45	*S*	49·22	48·70	48·66	48·97	49·70	50·70	51·65	*S*	52·12
15	51·22	*S*	49·75	49·18	48·70	48·67	49·00	*S*	50·75	51·68	52·22	52·09
16	51·19	50·44	49·72	49·13	*S*	48·67	49·00	49·75	50·75	51·79	52·28	52·08
17	51·15	50·43	49·74	49·13	48·67	48·68	49·02	49·80	50·82	*S*	52·25	52·08
18	*S*	50·42	49·73	*S*	48·67	48·68	*S*	49·80	50·84	51·74	...	52·07
19	51·10	50·35	49·72	49·07	48·66	48·69	49·05	49·85	*S*	51·75	52·24	*S*
20	51·10	50·32	49·72	49·03	48·67	*S*	49·10	49·87	50·92	51·78	52·25	52·08
21	51·05	50·30	*S*	49·05	48·64	48·71	49·12	49·88	50·93	51·80	*S*	52·05
22	51·04	*S*	49·74	49·05	48·68	48·72	49·14	*S*	50·98	51·82	52·26	52·03
23	51·04	50·27	49·68	49·04	*S*	48·73	49·16	49·98	51·03	51·82	52·25	52·00
24	50·98	50·25	49·65	49·00	48·67	48·74	49·18	50·00	51·06	*S*	52·24	51·99
25	*S*	50·21	49·57	*S*	48·67	48·75	*S*	50·06	51·10	51·83	52·23	Christ. Day
26	50·95	50·19	49·57	48·98	48·65	48·75	49·22	50·15	*S*	51·88	52·28	*S*
27	50·97	50·17	49·55	48·94	48·65	*S*	49·24	50·15	51·14	51·92	52·29	51·95
28	50·87	50·15	*S*	48·90	48·65	48·78	49·27	50·18	51·15	51·97	*S*	51·94
29	50·86	*S*	49·54	48·88	48·64	48·78	49·28	*S*	51·19	51·99	52·25	51·93
30	50·86		49·52	48·85	*S*	48·80	49·30	50·22	51·24	52·03	52·22	51·93
31	50·83		49·47		48·64		49·33	50·24		*S*		51·93

The letter *S* denotes that the day was Sunday.

April 9. Good Friday: the instruments were not read.

November 18. The instruments were not read.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean of the readings at noon was found in twelve instances to be greater by 0°·01, than the monthly mean of all the observations; in one instance the excess was 0°·02, and in another it amounted to 0°·03. In all the remaining cases, the means of the noon observations agreed precisely with the means of all the observations.

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12·8 feet (12 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	49·38	*S*	46·74	45·90	46·57	48·40	50·35	*S*	55·64	56·12	54·35	52·63
2	49·30	47·73	46·69	45·90	*S*	48·47	50·40	53·70	55·75	56·08	54·28	52·60
3	49·28	47·57	46·67	45·90	46·64	48·54	50·50	53·85	55·80	*S*	54·14	52·55
4	*S*	47·54	46·62	*S*	46·67	48·62	*S*	53·98	55·82	56·02	54·10	52·62
5	49·15	47·50	46·57	45·93	46·67	48·69	50·65	54·10	*S*	56·03	53·97	*S*
6	49·10	47·45	46·55	45·95	46·76	*S*	50·73	54·17	55·85	56·00	53·94	52·49
7	49·05	47·43	*S*	45·92	46·83	48·80	50·78	54·28	55·83	55·98	*S*	52·38
8	49·00	*S*	46·48	45·95	46·90	48·87	50·87	*S*	55·92	55·90	53·82	52·33

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12 French feet—*continued.*

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
9	48·88	47·30	46·42	...	*S*	48·90	50·97	54·45	55·95	55·88	53·75	52·20
10	48·83	47·27	46·35	45·96	47·00	48·94	51·04	54·57	56·00	*S*	53·72	52·15
11	*S*	47·27	46·32	*S*	47·03	49·00	*S*	54·61	56·04	55·80	53·70	52·16
12	48·70	47·24	46·38	46·00	47·06	49·08	51·19	54·65	*S*	55·75	53·68	*S*
13	48·60	47·17	46·35	46·02	47·12	*S*	51·30	54·74	56·12	55·70	53·49	52·03
14	48·55	47·19	*S*	46·06	47·18	49·25	51·44	54·88	56·08	55·61	*S*	51·92
15	48·46	*S*	46·20	46·05	47·20	49·33	51·57	*S*	56·12	55·54	53·44	51·85
16	48·35	47·20	46·15	46·06	*S*	49·39	51·70	55·04	56·14	55·45	53·43	51·77
17	48·22	47·20	46·10	46·10	47·33	49·45	51·80	55·13	56·18	*S*	53·32	51·80
18	*S*	47·18	46·10	*S*	47·37	49·48	*S*	55·18	56·16	55·33	...	51·70
19	48·14	47·10	45·97	46·15	47·45	49·57	52·07	55·28	*S*	55·23	53·27	*S*
20	48·11	47·09	46·00	46·20	47·48	*S*	52·23	55·30	56·25	55·20	53·24	51·80
21	48·06	47·06	*S*	46·25	47·54	49·68	52·37	55·33	56·20	55·10	*S*	51·62
22	48·04	*S*	46·03	46·32	47·70	49·75	52·52	*S*	56·28	55·04	53·16	51·57
23	48·02	47·00	46·00	46·35	*S*	49·82	52·65	55·38	56·30	54·94	53·09	51·51
24	47·94	46·98	45·93	46·39	47·82	49·88	52·80	55·40	56·30	*S*	53·04	51·47
25	*S*	46·93	45·93	*S*	47·90	49·95	*S*	55·47	56·30	54·75	53·00	Christ. Day.
26	47·85	46·93	45·95	46·48	47·95	49·98	53·02	55·52	*S*	54·70	52·97	*S*
27	47·80	46·86	45·95	46·50	48·02	*S*	53·17	55·55	56·23	54·59	52·85	51·35
28	47·77	46·83	*S*	46·44	48·10	50·12	53·31	55·55	56·15	54·54	*S*	51·32
29	47·70	*S*	45·95	46·48	48·15	50·18	53·40	*S*	56·18	54·40	52·73	51·24
30	47·74		45·94	46·54	*S*	50·25	53·50	55·60	56·16	54·44	52·64	51·20
31	47·67		45·90		48·34		53·65	55·60		*S*		51·22

The letter *S* denotes that the day was Sunday.

April 9. Good Friday.

November 18. The instruments were not read.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to have the same value in three cases as the monthly mean of all the readings; in five cases it was in excess by 0°·01; in seven cases the excess amounted to 0°·02; in four cases to 0°·03; and in one case to 0°·04.

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6·4 feet (6 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	46·35	*S*	44·10	44·72	47·80	51·45	54·38	*S*	59·55	58·00	52·81	50·65
2	46·20	45·11	44·08	44·82	*S*	51·47	54·72	59·50	59·48	57·90	52·79	50·57
3	46·10	44·97	44·05	44·96	48·03	51·47	54·90	59·60	59·40	*S*	52·50	50·38
4	*S*	45·05	44·00	*S*	48·12	51·55	*S*	59·70	59·40	57·80	52·62	50·38
5	45·80	45·12	43·93	45·08	48·19	51·65	55·27	59·80	*S*	56·95	52·70	*S*
6	45·70	45·17	43·89	45·20	48·30	*S*	55·47	59·50	59·48	56·85	52·83	50·12
7	45·60	45·25	*S*	45·24	48·30	51·80	55·68	59·40	59·42	56·70	*S*	50·08
8	45·50	*S*	43·70	45·35	48·40	51·93	56·00	*S*	59·40	56·50	52·87	50·08
9	45·39	45·40	43·60	...	*S*	52·03	56·40	59·30	59·40	56·35	52·88	49·95
10	45·30	45·40	43·50	45·55	48·52	52·20	56·75	59·30	59·38	*S*	52·92	50·03
11	*S*	45·38	43·50	*S*	48·68	52·57	*S*	59·20	59·48	55·90	52·90	50·12
12	45·27	45·37	43·53	45·75	48·78	52·66	57·38	59·20	*S*	55·68	52·80	*S*
13	45·18	45·38	43·65	45·88	48·97	*S*	57·80	59·20	59·44	55·46	52·82	50·12
14	44·97	45·30	*S*	46·02	49·10	52·72	57·90	59·20	59·40	55·13	*S*	50·08
15	44·97	*S*	43·70	46·12	49·27	52·70	58·10	*S*	59·35	55·08	52·57	50·10
16	44·95	45·08	43·72	46·29	*S*	52·70	58·30	59·20	59·30	54·90	52·38	50·08
17	45·10	45·00	43·78	46·50	49·48	52·76	58·80	59·20	59·34	*S*	52·35	50·15
18	*S*	45·01	43·80	*S*	49·67	52·80	*S*	59·00	59·30	54·70	...	50·09
19	45·40	44·88	43·80	46·80	49·80	52·92	59·00	58·95	*S*	54·53	52·30	*S*

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6 French feet—*continued.*

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
20	45·47	44·90	43·90	46·87	50·04	*S*	59·10	58·95	59·25	54·50	52·24	50·08
21	45·47	44·90	*S*	47·02	50·19	53·18	59·10	58·90	59·00	54·35	*S*	49·98
22	45·40	*S*	44·05	47·10	50·40	53·29	59·20	*S*	59·00	54·25	51·95	49·90
23	45·47	44·72	44·10	47·18	*S*	53·42	59·20	59·00	58·98	54·10	51·83	49·70
24	45·40	44·60	44·10	47·20	50·78	53·55	59·20	59·05	58·95	*S*	51·78	49·72
25	*S*	44·47	44·15	*S*	50·93	53·65	*S*	59·20	59·00	53·90	51·68	Christ. Day.
26	45·38	44·38	44·35	47·42	51·00	53·73	59·20	59·40	*S*	53·70	51·66	*S*
27	45·41	44·30	44·45	47·50	51·13	*S*	59·30	59·40	58·85	53·31	50·95	49·50
28	45·20	44·20	*S*	47·57	51·27	54·10	59·30	59·40	58·80	53·32	*S*	49·45
29	45·20	*S*	44·60	47·67	51·30	54·27	59·30	*S*	58·00	53·18	50·73	49·40
30	45·20		44·65	47·77	*S*	54·45	59·30	59·50	58·00	53·06	50·70	49·40
31	45·10		44·65		51·42		59·30	59·50		*S*		49·40

The letter *S* denotes that the day was Sunday.

April 9. Good Friday.

November 18. The instruments were not read.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be higher than the monthly mean reading, as found from all the observations, by 0°·03.

(IV.)—Reading of a Thermometer whose bulb is sunk to the depth of 3·2 feet (3 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	41·98	*S*	40·70	44·00	48·70	52·70	58·00	*S*	63·40	57·20	50·50	46·88
2	41·65	42·54	40·58	44·15	*S*	52·83	58·12	65·80	63·30	56·80	51·00	46·50
3	41·40	42·90	40·66	44·15	48·78	53·08	58·38	65·80	63·20	*S*	51·65	46·50
4	*S*	43·10	40·47	*S*	48·48	53·25	*S*	65·80	63·22	55·95	51·92	46·63
5	41·60	43·27	40·22	44·15	48·55	53·40	59·60	65·00	*S*	54·92	51·60	*S*
6	41·35	43·69	39·96	44·28	48·50	*S*	60·60	64·40	63·30	54·90	51·72	47·50
7	41·19	44·00	*S*	44·56	48·68	54·20	61·60	64·10	63·11	54·55	*S*	47·87
8	41·38	*S*	39·67	44·90	48·96	54·55	62·50	*S*	63·00	53·95	51·10	48·03
9	41·50	43·80	39·87	...	*S*	54·75	63·10	63·58	62·80	53·52	52·15	47·90
10	41·55	43·77	40·19	45·30	49·98	55·10	63·45	63·38	62·55	*S*	52·51	47·78
11	*S*	43·30	40·58	*S*	50·45	55·00	*S*	63·00	62·42	52·60	52·70	48·15
12	41·20	42·67	40·74	45·53	50·49	54·48	63·95	62·57	*S*	52·60	51·88	*S*
13	41·73	42·12	41·00	45·90	50·60	*S*	64·30	62·10	61·85	52·50	51·57	48·42
14	42·18	41·78	*S*	46·40	50·80	54·08	64·40	62·00	61·30	52·39	*S*	48·45
15	42·67	*S*	41·00	46·80	50·90	54·33	64·80	*S*	60·95	52·42	51·68	48·50
16	43·20	41·58	41·15	47·20	*S*	54·57	64·80	62·05	60·55	52·40	50·92	48·40
17	43·60	41·85	41·40	47·50	51·50	54·90	65·20	62·10	60·12	*S*	50·90	48·20
18	*S*	42·44	41·55	*S*	52·00	55·03	*S*	62·40	59·55	52·30	...	48·03
19	43·19	42·57	41·60	47·30	52·37	55·22	65·50	62·70	*S*	52·12	50·50	*S*
20	42·62	42·10	41·60	46·90	52·85	*S*	65·70	62·70	59·02	52·02	49·80	47·70
21	42·66	41·55	*S*	46·85	53·00	55·63	65·70	62·80	58·70	51·79	*S*	47·67
22	42·70	*S*	42·10	47·00	53·30	55·90	65·40	*S*	58·47	51·70	49·82	47·45
23	43·02	40·87	42·45	47·28	*S*	56·00	65·40	62·95	58·00	51·98	49·57	47·20
24	42·68	40·67	43·00	47·60	53·30	56·23	65·40	63·05	57·90	*S*	49·30	47·17
25	*S*	40·60	43·10	*S*	53·38	56·60	*S*	63·11	57·90	51·92	48·95	Christ. Day.
26	42·40	40·62	43·20	48·02	53·50	56·95	65·50	63·10	*S*	51·90	48·64	*S*
27	42·59	40·66	43·22	48·00	53·48	*S*	65·70	63·35	57·93	50·80	48·40	47·10
28	42·46	40·58	*S*	48·10	53·50	57·58	65·70	63·50	57·83	50·33	*S*	47·42
29	42·35	*S*	42·80	48·10	53·50	57·68	65·70	*S*	57·80	50·10	47·86	47·19
30	41·97		43·00	48·35	*S*	57·87	65·70	63·78	57·54	49·98	47·29	46·80
31	41·85		44·55		52·70		65·80	63·65		*S*		46·92

The letter *S* denotes that the day was Sunday.

April 9. Good Friday.

November 18. The instruments were not read.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean reading at noon, in the months from April to September, was found to be 0° ·08 higher than the mean for the same months from all the observations, and in the remaining months the excess was 0° ·03.

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of one inch below the surface of the soil, within the box which covers the tops of the deep-sunk Thermometers, at Noon on every Day generally, except Sundays.

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	36 ·5	*S*	40 ·5	46 ·0	51 ·5	56 ·5	63 ·0	*S*	64 ·0	53 ·0	55 ·0	41 ·0
2	38 ·0	49 ·2	40 ·5	45 ·0	*S*	57 ·5	63 ·5	71 ·0	64 ·5	54 ·0	57 ·3	45 ·0
3	41 ·0	44 ·8	38 ·0	45. 0	49 ·3	56 ·5	66 ·0	68 ·0	66 ·5	*S*	54 ·0	44 ·0
4	*S*	45 ·0	38 ·0	*S*	50 ·7	57 ·0	*S*	65 ·0	76 ·8	51 ·5	51 ·5	50 ·0
5	38 ·0	50 ·5	36 ·0	49 ·0	52 ·0	59 ·5	77 ·0	65 ·0	*S*	53 ·5	55 ·4	*S*
6	42 ·0	47 ·0	38 ·0	47 ·0	52 ·5	*S*	77 ·0	64 ·0	75 ·8	50 ·0	51 ·1	51 ·0
7	45 ·5	43 ·0	*S*	47 ·0	53 ·0	61 ·0	75 ·0	65 ·0	61 ·8	49 ·0	*S*	48 ·0
8	43 ·5	*S*	43 ·0	48 ·5	58 ·0	62 ·0	73 ·0	*S*	63 ·5	47 ·4	58 ·0	48 ·2
9	39 ·0	44 ·0	43 ·0	Good Friday	*S*	59 ·0	75 ·0	64 ·5	63 ·8	46 ·3	57 ·0	46 ·0
10	38 ·0	40 ·0	42 ·0	47 ·0	59 ·0	56 ·0	73 ·0	64 ·5	64 ·0	*S*	52 ·2	51 ·0
11	*S*	39 ·0	41 ·0	*S*	53 ·5	54 ·0	*S*	62 ·0	63 ·0	50 ·4	50 ·0	52 ·3
12	48 ·0	38 ·0	41 ·0	49 ·5	53 ·5	52 ·0	68 ·0	59 ·5	*S*	50 ·2	50 ·5	*S*
13	42 ·8	38 ·0	42 ·0	50 ·5	57 ·0	*S*	73 ·0	63 ·0	60 ·8	51 ·2	48 ·4	52 ·7
14	48 ·0	39 ·0	*S*	54 ·5	55 ·0	57 ·5	73 ·0	64 ·0	58 ·0	51 ·2	*S*	53 ·0
15	50 ·0	*S*	41 ·5	52 ·2	56 ·2	59 ·0	75 ·5	*S*	59 ·0	51 ·5	53 ·0	50 ·0
16	48 ·0	43 ·0	44 ·0	48 ·8	*S*	59 ·0	73 ·5	64 ·0	58 ·0	51 ·3	53 ·7	47 ·0
17	44 ·8	48 ·0	43 ·5	48 ·5	58 ·0	59 ·0	72 ·5	66 ·0	55 ·2	*S*	53 ·0	48 ·5
18	*S*	44 ·0	42 ·0	*S*	61 ·0	58 ·0	*S*	66 ·5	55 ·9	50 ·5	...	44 ·2
19	42 ·0	39 ·0	43 ·5	46 ·6	58 ·0	60 ·0	69 ·0	65 ·0	*S*	49 ·0	45 ·3	*S*
20	46 ·0	37 ·0	40 ·3	48 ·4	61 ·0	*S*	69 ·5	64 ·0	58 ·5	50 ·0	50 ·5	50 ·0
21	43 ·0	36 ·0	*S*	50 ·0	58 ·0	62 ·0	69 ·0	63 ·6	63 ·5	50 ·3	*S*	47 ·3
22	44 ·0	*S*	49 ·5	53 ·8	56 ·5	60 ·5	69 ·5	*S*	53 ·5	53 ·5	48 ·8	46 ·8
23	42 ·5	39 ·4	48 ·5	56 ·0	*S*	62 ·0	69 ·8	66 ·0	57 ·5	57 ·0	40 ·0	44 ·0
24	43 ·0	39 ·5	48 ·0	53 ·0	55 ·0	63 ·0	73 ·0	66 ·0	57 ·0	*S*	47 ·8	51 ·2
25	*S*	40 ·0	44 ·0	*S*	58 ·0	63 ·0	*S*	66 ·0	59 ·5	49 ·0	43 ·7	Christ. Day.
26	43 ·8	41 ·0	44 ·0	53 ·0	54 ·0	61 ·5	68 ·5	67 ·5	*S*	47 ·5	51 ·8	*S*
27	44 ·5	40 ·4	42 ·0	48 ·8	54 ·0	*S*	70 ·5	67 ·8	57 ·5	45 ·5	47 ·2	50 ·0
28	39 ·0	43 ·0	*S*	53 ·0	53 ·5	62 ·3	70 ·0	66 ·0	58 ·0	47 ·8	*S*	45 ·4
29	39 ·0	*S*	47 ·0	53 ·0	53 ·0	62 ·5	70 ·0	*S*	57 ·0	45 ·0	41 ·2	45 ·0
30	45 ·5		51 ·5	54 ·0	*S*	63 ·0	69 ·0	68 ·0	55 ·0	50 ·7	43 ·0	48 ·8
31	40 ·5		48 ·0		50 ·5		70 ·5	63 ·0		*S*		46 ·8

The letter *S* denotes that the day was Sunday.

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers, whose bulb is placed on a level with their scales, at Noon on every Day generally, except Sundays.

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	34 ·0	*S*	46 ·8	50 ·0	51 ·3	62 ·0	66 ·5	*S*	66 ·5	54 ·0	59 ·5	43 ·0
2	39 ·0	52 ·0	41 ·0	50 ·0	*S*	62 ·5	68 ·0	75 ·5	73 ·5	59 ·0	59 ·5	45 ·5
3	43 ·0	46 ·5	40 ·8	51 ·5	54 ·5	58 ·0	73 ·0	66 ·8	74 ·0	*S*	57 ·0	44 ·5
4	*S*	47 ·0	42 ·0	*S*	56 ·8	62 ·5	*S*	65 ·3	74 ·5	52 ·5	56 ·5	53 ·5
5	39 ·5	53 ·0	41 ·0	58 ·0	58 ·8	65 ·0	88 ·0	68 ·0	*S*	55 ·5	58 ·0	*S*
6	45 ·0	47 ·0	44 ·8	53 ·5	57 ·0	*S*	86 ·5	64 ·5	69 ·1	47 ·5	53 ·5	50 ·7
7	47 ·0	46 ·4	*S*	47 ·0	62 ·5	64 ·5	83 ·0	68 ·0	59 ·5	50 ·6	*S*	49 ·0
8	47 ·0	*S*	49 ·0	52 ·5	69 ·5	66 ·5	83 ·5	*S*	65 ·8	44 ·5	61 ·0	47 ·5
9	39 ·0	42 ·5	50 ·0	Good Friday.	*S*	60 ·0	86 ·0	65 ·5	66 ·0	50 ·1	58 ·0	47 ·7
10	38 ·8	39 ·0	41 ·8	55 ·0	63 ·3	54 ·5	81 ·0	69 ·5	65 ·5	*S*	50 ·9	54 ·0

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers—*continued.*

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
11	*S*	41·0	41·4	*S*	55·0	55·0	*S*	63·5	65·5	52·7	51·0	55·0
12	50·0	39·8	42·0	54·5	55·0	55·0	73·0	67·0	*S*	56·0	47·4	*S*
13	40·5	38·8	45·0	59·0	59·0	*S*	79·5	66·0	65·5	56·5	46·6	52·8
14	49·8	47·6	*S*	68·5	58·5	63·0	77·0	70·5	61·4	54·4	*S*	54·2
15	51·8	*S*	45·0	58·0	63·0	63·5	84·2	*S*	59·5	53·4	55·0	50·7
16	50·0	45·5	47·0	48·0	*S*	62·0	82·0	66·0	61·5	51·8	57·0	49·0
17	45·5	54·8	45·0	55·0	59·0	62·0	76·0	69·5	60·5	*S*	54·0	48·5
18	*S*	44·0	43·0	*S*	68·4	58·5	*S*	70·5	56·2	55·5	...	42·5
19	45·0	38·8	45·8	47·0	61·0	64·8	76·0	69·0	*S*	52·6	46·0	*S*
20	48·8	36·8	50·0	54·8	70·7	*S*	72·0	62·7	61·8	58·8	53·0	53·8
21	44·8	40·0	*S*	57·0	59·0	64·0	74·5	68·0	52·0	56·0	*S*	48·5
22	45·8	*S*	63·0	63·8	57·5	63·5	74·5	*S*	60·0	57·2	46·5	47·0
23	43·5	41·0	60·0	64·0	*S*	68·0	75·0	68·8	61·8	53·8	37·5	40·5
24	44·8	43·0	59·0	54·5	59·0	59·0	80·0	68·0	65·0	*S*	47·5	53·0
25	*S*	41·8	48·2	*S*	61·5	69·0	*S*	71·5	66.5	45·5	46·0	Christ. Day.
26	47·0	44·5	46·5	62·5	54·0	63·0	73·0	72·0	*S*	48·8	54·5	*S*
27	44·5	43·0	43·0	49·0	53·8	*S*	76·0	74·5	60·8	43·6	47·0	51·9
28	36·0	45·8	*S*	60·4	57·0	65·5	76·0	71·5	55·5	47·5	*S*	44·5
29	42·8	*S*	54·0	58·0	53·0	64·5	74·0	*S*	59·5	44·5	47·5	48·0
30	49·0		55·0	56·0	*S*	67·0	73·5	73·0	57·8	56·8	39·5	51·0
31	40·0		48·0		59·0		78·0	67·0		*S*		49·0

The letter *S* denotes that the day was Sunday.

Abstract of the Changes of the Direction of the Wind, as derived from Osler's Anemometer.

By *direct* motion, in the following statements, is meant that the change of the direction of the wind was in the order N., E., S., W., N., &c.; by *retrograde* is meant in the order N., W., S., E., N., &c.

		d	h	
1851.	Dec.	31.	12.	The direction of the wind was W.
1852.	Jan.	31.	12.	,, ,, W., which implies no change.
	Jan.	13.	9.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of January was 360°.

		d	h	
1852.	Jan.	31.	12.	The direction of the wind was W.
	Feb.	29.	12.	,, ,, W., which implies no change.
	Feb.	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of February was 360°.

		d	h	
1852.	Feb.	29.	12.	The direction of the wind was W.
	March	31.	12.	,, ,, N.N.E., which implies a direct motion of 112½°.
	March	20.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	March	24.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	March	27.	2.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of March was 1192½°.

		d	h	
1852.	March	31.	12.	The direction of the wind was N.N.E.
	April	30.	12.	,, ,, N.N.E., which implies no change.
	April	19.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	21.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	21.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	April	27.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of April was 360°.

CHANGES IN THE DIRECTION OF THE WIND—*continued.*

		d	h	
1852.	April	30.	12.	The direction of the wind was N.N.E.
	May	31.	12.	,, ,, S.S.W., which implies a retrograde motion of 180°.
	May	6.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	17.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	18.	23.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	19.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrograde motion in the month of May was 180°.

		d	h	
1852.	May	31.	12.	The direction of the wind was S.S.W.
	June	30.	12.	,, ,, S.W., which implies a direct motion of 22½°.
	June	7.	2.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	19.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of June was 22½°.

		d	h	
1852.	June	30.	12.	The direction of the wind was S.W.
	July	31.	12.	,, ,, W.S.W., which implies a direct motion of 22½°.
	July	9.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	14.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	15.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	17.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	25.	7.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	July	25.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	26.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of July was 1102½°.

		d	h	
1852.	July	31.	12.	The direction of the wind was W.S.W.
	August	31.	12.	,, ,, S., which implies a retrograde motion of 67½°.
	August	14.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	15.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	24.	1.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	25.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of August was 292½°.

		d	h	
1852.	August	31.	12.	The direction of the wind was S.
	Sep.	30.	12.	,, ,, S.W., which implies a direct motion of 45°.
	Sep.	20.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sep.	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Sep.	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sep.	29.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of September was 45°.

		d	h	
1852.	Sep.	30.	12.	The direction of the wind was S.W.
	Oct.	31.	12.	,, ,, S.S.W., which implies a retrograde motion of 22½°.
	Oct.	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	26.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	29.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrograde motion in the month of October was 1102½°.

		d	h	
1852.	Oct.	31.	12.	The direction of the wind was S.S.W.
	Nov.	30.	12.	,, ,, N.N.W., which implies a direct motion of 135°.
	Nov.	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Nov.	11.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

CHANGES IN THE DIRECTION OF THE WIND—*continued.*

1852. Nov. 23. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Therefore the whole excess of direct motion in the month of November was 495°.

1852. Nov. 30. 12. The direction of the wind was N.N.W.
Dec. 31. 12. ,, ,, S.S.W., which implies a retrograde motion of 135°.
Dec. 23. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of December was 225°.
The whole excess of direct motion to the end of the year was 3172½°. = +8 R. C.

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1852.

1852, Month.	Monthly Amount of Rain collected in each Gauge.			
	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.	Cylinder partly sunk in the Ground at the Royal Naval Schools.
	in.	in.	in.	in.
January	2·8	2·9	3·6	3·2
February	0·4	0·9	0·9	1·0
March	0·1	0·1	0·2	0·2
April	0·5	0·5	0·5	0·4
May	2·0	1·8	1·9	1·8
June	4·9	4·2	4·6	4·8
July	2·0	1·7	2·3	2·3
August	4·4	4·1	4·4	4·2
September	3·6	3·6	3·8	7·7
October	3·6	3·7	3·8	
November	5·3	5·3	6·0	5·8
December	1·5	1·6	2·2	1·9
Sums	31·1	30·4	34·2	33·3

The gauges at the Royal Observatory are read at 9h P.M., and the monthly records for the Royal Observatory terminate at 9h P.M., on the last day of every month. The gauge at the Royal Naval Schools is read at noon on the last day of every month, and the monthly record for the Royal Naval Schools terminates at noon on the last day of every month. The results at the two places are not strictly comparable in those instances in which rain has fallen between the hours of noon and 9h P.M. on the last day of the month.

At the end of July the gauge at the Royal Naval Schools was found choked up with dirt, and the reading was 1·7 only; the inferred number 2·3 is inserted in the above table. The reading was not taken for September; but, at the end of October, the amount accumulated in the two months was found to be 7·7. The monthly fall at the Royal Observatory was 3·8 in each month, and the fall at the Royal Naval Schools may be considered to have been 3·85 in each month.

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RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1853.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1853.)

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS.

1853.

ROYAL OBSERVATORY, GREENWICH.

INDICATIONS

OF

MAGNETOMETERS.

1853.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory consisted during the year 1853, of Mr. Glaisher the Superintendant, and Mr. Downs, with two or three supernumerary assistants, to assist in the observations and reductions.

For description of the three Magnetometers, the method of observing by the Telescope, and the method of reducing the observations, the reader is referred to the *Greenwich Magnetical and Meteorological Observations* for 1847, Introduction, page i to xlii ; and to corresponding parts of the preceding volumes.

During the year 1853, Telescope-Observations of the Magnetometers have usually been made four times every day, except on Sundays, on which days two observations only have been taken ; but, though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite, by which the DECLINATION MAGNET is observed, corresponding to the Astronomical Meridian, on January 19, 28, February 5, 16, March 2, 12, 26, April 16, 28, May 13, 20, July 25, August 26, September 5, 24, October 20, 26, November 9, December 23 and 29.

Observations were made of the Collimation of the Declination Magnetometer ; of the Collimation of the Theodolite-Telescope ; and of the Torsion-force of the Suspension skein, on 1852, December 28 and 29.

Observations of the angle of torsion of the HORIZONTAL FORCE MAGNETOMETER, were made on 1852, December 29, 30, and 1853, January 1. The angle determined was 42°.38′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on 1852, December 29, 30, and 1853, January 1, and the general conclusion was, that the scale-readings were nearly identical and had nearly the same value when the reading of the torsion-circle was 144° (marked end West); and 229°.16′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) is 144°.

The number used for the variation of horizontal force for a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·0020862.

The correction for temperature is $0{\cdot}0000809 \times (t-32) + 0{\cdot}000000762\ (t-32)^2$, where t is the temperature in degrees of Fahrenheit's scale. This is *not* applied to any of the results of observation.

Observations of the times of vibration of the VERTICAL FORCE MAGNETOMETER in a vertical plane have usually been made two, three, or four times a week. The adopted time of vibration till January 27, was $12^{s}{\cdot}34$; from January 28 to April 26, $24^{s}{\cdot}2$; from April 27 to June 20, $25^{s}{\cdot}9$; from June 21 to September 21, $25^{s}{\cdot}1$; and from September 22 to the end of the year, $22^{s}{\cdot}3$.

Observations for the time of vibration in a horizontal plane were made on January 3 and 4, and the time was found to be $25^{s}{\cdot}0033$ from 10000 vibrations. The values of the disturbing force, in terms of the whole vertical force, for one division of the scale, are inferred to be 0·002545 till January 27; 0·000661 from January 28 to April 26 ; 0·000577 from April 27 to June 20; 0·000615 from June 21 to September 21; and 0·000781 from September 22 to the end of the year : and these numbers are used throughout their respective periods.

The correction for temperature is $0{\cdot}00013845 \times (t-32) + 0{\cdot}000004054 + (t-32)^2$. This is *not* applied to any of the results of observation.

The methods adopted in the use of the Photographic Apparatus: in the determination of zeros, both for time and for magnetic indications; and in the translation into numbers of the indications given by the Photographic Traces for arbitrary times; are in every respect the same as those described in the Addendum to the Introduction to the *Greenwich Magnetical and Meteorological Observations*, 1847, pages lxxxiii to xc.

It is proper, however, to mention that, in measuring the ordinates of the Vertical Force Curves, the same difficulty that is mentioned in the four preceding volumes has still occasionally been felt. Apparently, without cause, the curve is dislocated; one part being raised above or depressed below the contiguous part, in the direction of the ordinate, usually by small quantities, but, at times, by a considerable quantity. In all cases the displacement is accompanied by vibration, the original position being at the extremity of the arc of vibration, and the new position being at its center; showing that there has been no want of delicacy in the movement, and that the change is precisely the same as would be caused by the quiet application of a small weight upon one end of the magnet.

In general the ordinates of the Photographic Curves have been measured so frequently, including all maxima and minima, that a reader, laying down a succession of points by means of the given times as abscissæ and the given measures of force as ordinates, connecting these points by straight lines, and attending to the symbols as explained in the foot notes, will very nearly reproduce the original curves.

At times when the Vertical Force Trace is dislocated, two ordinates have been taken for the same abscissæ; these are connected by a brace, and the difference of the numbers indicates the amount of the disturbance.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Jan. 10		Jan. 10				Jan. 10		
h m	° ′ ″	h m		h m		h m	°	°
1. 15	22. 17. 15	1. 22	·0919			1. 40	48 ·5	
1. 38	22. 20	1. 50	·0902			3. 40	50 ·0	
2. 0	14. 20					9. 40	53 ·0	
2. 27	12. 55	4. 38:	·0923			21. 40	51 ·0	
2. 43	15. 0	5. 16	·0902					
	***	5. 48	·0934					
5. [illegible]	15. 0		***					
5. 33	2. 5	7. 36	·0918					
6. 15	14. 30	7. 56	·0892					
	***	8. 17	·0942					
7. 42	22. 13. 0	8. 30	·0932					
8. 13	21. 43. 25	8. 44	·0942					
8. 29	21. 55. 0	9. 11	·0915					
9. 1	22. 4. 0	9. 55	·0902					
9. 18	4. 0		***					
10. 8	10. 30	10. 33	·0927					
10. 34	17. 0	10. 50	·0914					
11. 0	9. 8		***					
	***	11. 35	·0924					
12. 22	10. 20	12. 0	·0915					
12. 40	18. 15		***					
13. 50	14. 2	14. 0	·0915					
	***	19. 30	·0924					
18. 15	11. 0	23. 17	·0911					
	***	23. 59	·0902					
22. 52	12. 25							
23. 0	14. 40							
	***							
23. 59	15. 40							
	***							
Jan. 11		Jan. 11				Jan. 11		
0. 30	22. 16. 0	0. 32	·0884			1. 40	52 ·0	
0. 40	14. 15	2. 11	·0910			3. 40	53 ·0	
1. 25	17. 20	7. 0	·0917			9. 40	52 ·5	
1. 59	15. 0	8. 1	·0910			21. 40	51 ·0	
	***	9. 6	·0921					
5. 43	12. 45	12. 43	·0920					
6. 52	13. 0	19. 45	·0930					
7. 15:	11. 55	23. 59	·0914					
7. 31:	12. 35							
8. 0:	9. 50							
8. 22:	12. 25							
8. 44	10. 30							
15. 50	14. 0							
21. 17	11. 55							
23. 59	13. 5							
Jan. 12		Jan. 12				Jan. 12		
0. 40	22. 13. 40	1. 42	·0918			1. 40	54 ·0	
	***	6. 13	·0917			3. 40	55 ·0	
6. 17	13. 30	6. 40:	·0908			9. 40	55 ·5	
6. 32	11. 35	7. 13:	·0920			21. 40	50 ·5	
6. 45	13. 55	7. 56	·0910					
8. 9	13. 10	10. 20	·0917					
9. 39	12. 30	10. 32	·0910					
9. 53	11. 25	10. 43	·0920					
10. 45	13. 20	11. 20	·0916					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet	of V. F. Magnet.
Jan. 12		Jan. 12						
h m	° ′ ″	h m		h m		h m	°	°
11. 31	22. 9. 30	11. 40	·0924					
11. 47	12. 30	11. 57	·0916					
12. 43:	11. 18	14. 27	·0927					
13. 10:	17. 20	15. 20	·0918					
13. 46:	11. 35	18. 22	·0934					
14. 13:	13. 5	21. 10	·0935					
14. 37	0. 40	23. 59	·0910					
16. 10	9. 55							
16. 33	8. 30							
17. 25	12. 5							
18. 30	10. 20							
18. 58	3. 30							
	†							
19. 45	7. 30							
20. 8	12. 30							
20. 17	11. 35							
20. 31	13. 5							
21. 2	9. 55							
21. 35	12. 35							
	***							
23. 14	13. 30							
	***							
23. 45	16. 10							
	***							
Jan. 13		Jan. 13		Jan. 13		Jan. 13		
0. 35	22. 17. 0	0. 15	·0907	3. 36	·02060	1. 40	51 ·0	52 ·5
	***	1. 18:	·0894	4. 17	·02120	3. 40	52 ·5	54 ·0
1. 8	19. 50	2. 17	·0914	9. 28	·02090	9. 40	52 ·0	54 ·0
1. 31	13. 35	3. 42	·0910	16. 38	·01970	21. 40	49 ·2	51 ·0
	***	3. 57	·0890	23. 59	·01950			
2. 50	20. 0	4. 23	·0888					
	***	4. 57	·0915					
3. 40	20. 55	6. 0	·0905					
3. 55	14. 30	6. 15:	·0920					
4. 8	16. 20	6. 35	·0908					
4. 29	11. 0	7. 8	·0903					
4. 45	15. 30	7. 38	·0916					
	***	10. 14	·0922					
6. 1	11. 0	10. 36	·0912					
6. 20	18. 30	11. 10	·0912					
6. 54	17. 0	11. 36	·0926					
7. 17	11. 40	15. 15	·0924					
8. 28	15. 0	15. 45	·0938					
8. 32	12. 30	16. 15	·0932					
	***		***					
10. 23	12. 25	19. 15	·0934					
	***		***					
23. 59	16. 5	19. 39	·0942					
	***		***					
		21. 4	·0938					
		21. 12	·0925					
		21. 17	·0938					
			***					
		22. 34	·0920					
		22. 43	·0928					
		23. 59	·0928					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
Jan. 14 h m	° ′ ″
0. 7	22. 15. 40
	***
2. 0	14. 30
2. 15	16. 30
2. 34	15. 40
2. 43	17. 0
2. 49	15. 20
3. 13	17. 0
3. 30:	20. 30
4. 12	10. 0
4. 35	11. 0
4. 49	14. 15
5. 4	13. 15
5. 30	16. 10
	***
6. 32	12. 5
7. 30:	14. 25
7. 55	10. 0
8. 20	10. 30
8. 34	4. 30
9. 7	10. 25
9. 44	3. 30
9. 58	7. 45
10. 22:	9. 25
10. 43:	6. 15
10. 56:	8. 5
11. 31	3. 30
12. 4	7. 30
12. 15	6. 30
13. 8	16. 30
13. 32	10. 0
14. 30	10. 30
15. 3	14. 0
15. 22	11. 5
15. 38	13. 10
	***
18. 17	12. 55
19. 40	15. 30
20. 58	11. 50
22. 37	11. 20
	***
23. 52	13. 45
Jan. 15	
0. 13	22. 16. 30
0. 52	14. 45
1. 54	16. 0
2. 53	13. 0
4. 15	12. 55
4. 48	14. 0
	†
6. 30	12. 0
6. 45	13. 30
9. 36	11. 30
10. 17	12. 20
	***
11. 47	9. 30
12. 3:	11. 35

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 14 h m	
0. 5	·0928
1. 0	·0922
2. 37	·0920
	***
3. 52	·0896
4. 15	·0914
5. 15	·0922
5. 25	·0912
8. 15	·0918
8. 40	·0938
9. 8	·0918
9. 50	·0946
10. 8	·0930
	†
12. 0	·0911
13. 0	·0939
14. 0	·0920
17. 0	·0924
20. 15	·0942
22. 8	·0930
	†
Jan. 15	
0. 13	·0928
1. 8	·0926
1. 40	·0914
5. 27	·0916
5. 43	·0911
6. 15	·0918
11. 42	·0926
12. 0	·0927
16. 0	·0929
16. 34	·0937
23. 40	·0934

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Jan. 14 h m	
0. 46	·01960
2. 8	·01920
4. 6	·01750
4. 7	·01950
4. 57	·01900
8. 16	·02090
13. 23	·02000
18. 47	·02000
23. 59	·01970
Jan. 15 h m	
0. 23	·01970
1. 38	·01880
	·01750
3. 52	·01540
5. 22	·01520
5. 23	·01730
11. 2	·02010
23. 45	·01880

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 14 h m	°	°
1. 40	49 ·5	52 ·0
3. 40	52 ·0	53 ·0
9. 40	53 ·0	54 ·5
21. 40	46 ·0	47 ·5
Jan. 15 h m		
1. 40	51 ·5	53 ·5
3. 40	52 ·5	54 ·0
9. 40	53 ·0	56 ·0
23. 40	47 ·0	50 ·0

Göttingen Mean Solar Time.	Western Declination.
Jan. 15 h m	° ′ ″
12. 30	22. 9. 50
13. 18	10. 0
13. 52	13. 20
13. 58	12. 5
15. 4	11. 15
15. 41	12. 15
16. 20	12. 0
	†
18. 30	11. 20
18. 43	11. 5
19. 20	13. 0
21. 43	12. 40
22. 45	13. 5
23. 42	16. 0
Jan. 16	
0. 55	22. 15. 40
2. 9	14. 50
4. 45	16. 5
6. 13	13. 30
	†
8. 17	11. 40
10. 23	12. 45
10. 36	7. 30
11. 8	11. 0
11. 31:	9. 20
	***
12. 46	12. 0
	***
13. 30	10. 10
	***
15. 23	12. 0
16. 0:	10. 5
	†
20. 50	13. 30
23. 59	13. 30
Jan. 17	
0. 5	22. 13. 30
	***
0. 36	13. 45
1. 0	15. 25
2. 30	15. 30
2. 54	17. 10
3. 31	16. 5
3. 52	17. 45
4. 4	17. 0
4. 40:	20. 10
5. 12	16. 45
5. 45:	16. 25
6. 6	15. 0
	***
7. 0	17. 45
7. 45:	3. 20
8. 25	17. 55
8. 46:	12. 55
9. 0	13. 20
10. 22	10. 55
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 16 h m	
2. 4	·0932
7. 39	·0936
10. 25	·0934
10. 30	·0930
10. 45	·0936
22. 4	·0944
22. 45	·0942
23. 45	·0934
Jan. 17 h m	
1. 45	·0924
3. 45	·0926
4. 45	·0912
5. 27	·0926
6. 9	·0931
6. 28	·0936
6. 34	·0940
7. 30	·0925
8. 0	·0920
8. 26	·0850
9. 0	·0930
11. 10	·0934
12. 45	·0932
12. 51	·0926
13. 46	·0946
14. 7	·0934
21. 45	·0950
22. 45	·0940
23. 8	·0941

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Jan. 16 h m	
1. 0	·01880
5. 46	·01890
11. 50	·01530
23. 45	·01480
Jan. 17 h m	
0. 40	·01850
3. 8	·01450
5. 25	·01500
5. 28	·01700
6. 58	·01660
8. 23	·01750
9. 58	·01740
14. 38	·01830
23. 17	·01870

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 16 h m	°	°
8. 10	48 ·5	52 ·0
21. 40	47 ·5	50 ·5
Jan. 17 h m		
1. 40	49 ·0	52 ·0
3. 40	51 ·0	53 ·0
9. 40	49 ·0	53 ·0
21. 40	45 ·4	49 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 17								
h m	° ′ ″	h m		h m		h m	c	c
12. 37	22. 12. 30							
	***							
13. 32	8. 45							
13. 47	10. 30							
14. 12	8. 0							
	***							
16. 51	13. 0							
21. 25	11. 30							
23. 59	14. 0							
Jan. 18		Jan. 18		Jan. 18		Jan. 18		
0. 37	22. 13. 20	0. 15	·0933	0. 40	·01880	1. 40	47 ·5	50 ·5
5. 13	19. 25	5. 0	·0921	3. 32	·01710	3. 40	51 ·	53 ·0
5. 49	15. 40	5. 42	·0911	5. 53	·01440	9. 40	50·	53 ·0
6. 3	18. 0	5. 55	·0918	7. 58	·01500	21. 48	43 ·5	47 ·5
6. 14	15. 10	6. 9	·0908	8. 0	·01700			
6. 34	16. 20	6. 44	·0932	13. 13	·01990			
6. 46	20. 55	6. 54	·0920	16. 14	·01830			
6. 58	16. 40	7. 3	·0932	23. 52	·01850			
7. 7	20. 0		***					
7. 26	17. 0	8. 45	·0888					
7. 42	25. 5	9. 30	·0912					
7. 47	21. 45	9. 58	·0910					
8. 9	24. 55	10. 15	·0938					
9. 4	8. 40	10. 37	·0900					
9. 16	10. 40	10. 47	·0904					
9. 44	22. 11. 35	11. 0	·0898					
10. 13	21. 50. 0	11. 15	·0908					
10. 28	22. 4. 0	12. 4	·0898					
10. 35	2. 50	12. 45	·0915					
10. 52	8. 5	14. 45	·0920					
11. 5	4. 30	15. 34	·0939					
11. 24	6. 0	16. 45	·0930					
	***	17. 52	·0944					
11. 50	3. 30	18. 15	·0938					
12. 4	5. 0	18. 34	·0940					
12. 30	1. 0	18. 47	·0933					
13. 7:	3. 0	19. 27	·0930					
13. 40:	18. 30	21. 28	·0918					
	***	21. 50	·0930					
14. 53:	9. 0	23. 30	·0928					
15. 25:	13. 0							
15. 43	8. 30							
16. 33	6. 15							
	***							
17. 47	13. 30							
18. 21	15. 20							
18. 37	20. 0							
18. 53	16. 20							
19. 15	18. 45							
19. 30	17. 35							
	***							
20. 2	19. 30							
20. 30	15. 10							
21. 19	20. 40							
	***							
21. 49	20. 30							
22. 16	15. 10							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 18								
h m	° ′ ″	h m		h m		h m	c	c
22. 36	22. 13. 25							
	***							
23. 11	18. 35							
	***							
23. 55	18. 0							
Jan. 19		Jan. 19		Jan. 19		Jan. 19		
0. 10	22. 18. 20	0. 17	·0910	0. 0	·01870	1. 40	50 ·0	54 ·0
0. 37	17. 35	2. 4	·0905	3. 53	·01440	3. 40	50 ·5	52 ·0
0. 52	20. 0	2. 40:	·0914	6. 13	·01530	9. 40	53 ·5	54 ·0
0. 55	17. 20	3. 5	·0924	12. 0	·01450	21. 40	52 ·0	53 ·0
1. 3	18. 25	3. 17	·0918	18. 0	·01580			
	***	4. 27	·0923	23. 50	·01470			
2. 21	12. 40	5. 6	·0904					
3. 6	16. 25	5. 36	·0904					
3. 36:	14. 50		***					
5. 0	16. 30	6. 15	·0917					
5. 45	10. 0	6. 43	·0908					
5. 54	11. 30	7. 15	·0914					
6. 4	11. 0	8. 30	·0910					
6. 37:	17. 10	9. 34	·0918					
6. 48	15. 0	11. 30	·0924					
	***	13. 0	·0917					
8. 10	13. 20	16. 0	·0926					
8. 34:	15. 5	20. 45	·0930					
9. 18	11. 30	22. 45	·0920					
10. 26	12. 0	23. 45	·0920					
11. 9	10. 55							
12. 21	12. 30							
13. 30	10. 50							
14. 20	11. 50							
14. 42:	10. 40							
15. 51	13. 30							
16. 4	12. 0							
20. 15	12. 0							
22. 13	11. 0							
23. 59	15. 0							
Jan. 20		Jan. 20		Jan. 20		Jan. 20		
0. 32	22. 15. 10	0. 30	·0918	0. 30	·01500	1. 40	55 ·0	56 ·0
1. 15	15. 45	1. 30	·0910	4. 46	·01600	3. 40	57 ·0	57 ·5
4. 30	11. 45	4. 33	·0912	4. 47	·01720	9. 50	57 ·0	58 ·5
7. 47	12. 20	4. 45	·0909	11. 0	·02130	21. 40	52 ·0	56 ·0
10. 15	12. 20	11. 30	·0924	23. 59	·02050			
10. 36	11. 30		***					
15. 30	12. 0	17. 4	·0928					
16. 16	11. 0	17. 20:	·0924					
16. 30	12. 30	17. 57	·0937					
17. 0	13. 25	18. 15	·0936					
17. 30:	16. 30	18. 30	·0942					
18. 15	10. 40	19. 0	·0934					
	***	19. 45	·0940					
18. 49	9. 40		***					
	***	23. 59	·0922					
19. 25	11. 30							
	***							
21. 55	11. 0							
22. 16	12. 5							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
Jan. 20								
h m	° ′ ″	h m		h m		h m	°	°
22. 42:	22. 10. 30							
22. 58	12. 0							
23. 7	10. 15							
23. 15	13. 59							
23. 18	12. 10							
23. 45	15. 0							
23. 47	13. 35							
23. 59	15. 10							
Jan. 21		Jan. 21		Jan. 21		Jan. 21		
0. 6	22. 16. 25	0. 7	·0921	0. 46	·02050	1. 40	54 ·0	56 ·0
0. 22:	16. 30	2. 43	·0903	2. 44	·01970	3. 40	57 ·0	57 ·5
0. 44	14. 30	3. 14	·0892	5. 4	·01670	9. 40	55 ·0	58 ·0
	***	3. 50	·0910	5. 9	·01850	21. 40	46 ·5	48 ·0
1. 50	17. 15	3. 56	·0906	7. 13	·01950			
	***	4. 30	·0910	8. 52	·02110			
2. 58	17. 55	18. 15	·0937	23. 23	·01900			
3. 17	15. 25	21. 0	·0944					
3. 45	14. 5	23. 16	·0928					
4. 45:	15. 45							
5. 25:	11. 30							
6 45	12. 0							
8. 38	11. 45							
9. 25:	8. 50							
9. 58	11. 0							
10. 12	10. 20							
10. 45	11. 30							
11. 28	10. 35							
17. 10	12. 35							
18. 45	11. 0							
18. 52	13. 0							
21. 44	9. 25							
23. 14	11. 0							
Jan. 22		Jan. 22		Jan. 22		Jan. 22		
0. 0	22. 12. 20	0. 0	·0924	0. 0	·01900	1. 40	48 ·0	50 ·0
0. 45	12. 5	0. 45	·0916	1. 31	·01870	3. 40	49 ·6	51 ·5
0. 54	11. 30	1. 42	·0923	4. 13	·01650	9. 40	49 ·0	51 ·5
2. 24	13. 0	8. 30	·0934	5. 36	·01390	23. 17	47 ·0	49 ·0
4. 41	11. 20	12. 43	·0933	11. 13	·01380			
7. 37	11. 50	13. 0:	·0940	19. 0	·01770			
10. 0	10. 30	13. 35	·0936	23. 10	·01820			
12. 45	11. 0	18. 50	·0942					
13. 5	12. 40	23. 18	·0938					
	**							
13. 21	11. 25							
18. 47	12. 0							
21. 40	10. 25							
23. 59	13. 0							
Jan. 23		Jan. 23		Jan. 23		Jan. 23		
0. 7	22. 13. 10	0. 0	·0936	0. 30	·01850	10. 16	47 ·0	48 ·0
2. 0	15. 0	20. 20	·0950	3. 0	·01860	21. 40	44 ·0	47 ·0
5. 11	12. 0	22. 36	·0938	7. 45	·01620			
8. 30	11. 25	23. 14	·0940	11. 27	·01640			
13. 12	13. 15			16. 17	·01900			
13. 17	12. 0			23. 20	·01870			
13. 35	13. 25							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
Jan. 23								
h m	° ′ ″	h m		h m		h m	°	°
13. 55	22. 12. 0							
15. 0	13. 10							
17. 55	12. 40							
20. 59	10. 50							
21. 27	10. 0							
	***							
23. 4	10. 30							
23. 54	14. 0							
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
0. 30	22. 12. 45	0. 0	·0941	0. 33	·01850	1. 40	45 ·0	49 ·5
1. 25	15. 5	4. 15	·0924	3. 13	·01740	3. 40	48 ·0	51 ·5
2. 53	16. 0	6. 54	·0931	6. 32	·01320	9. 40	50 ·0	51 ·5
4. 12	13. 20	8. 15	·0924	14. 5	·01300	21. 40	45 ·0	50 ·0
6. 21	12. 0		***	23. 20	·01710			
8. 4	12. 40	12. 0	·0930					
8. 28	11. 30		***					
8. 55	12. 5	15. 57	·0932					
10. 18	11. 30	21. 5	·0946					
10. 47	12. 0		***					
11. 6:	10. 0	23. 15	·0925					
	***							
12. 38	10. 30							
	***							
13. 21	12. 25							
13. 50	9. 35							
15. 23	13. 0							
15. 30	12. 0							
15. 52	13. 25							
16. 46	11. 0							
17. 40	12. 0							
18. 7	10. 30							
19. 25:	12. 30							
20. 3	8. 0							
20. 17	7. 30							
20. 47:	12. 0							
21. 13	12. 0							
21. 15	10. 40							
23. 36:	11. 30							
Jan. 25		Jan. 25		Jan. 25		Jan. 25		
0. 34	22. 15. 40	0. 0	·0922	0. 0	·01730	2. 5	48 ·0	50 ·5
1. 15	16. 50	1. 30	·0910	1. 18	·01700	3. 40	51 ·0	52 ·0
1. 44	15. 50	2. 0	·0918	3. 6	·01580	9. 40	49 ·7	53 ·0
2. 22	18. 15	3. 45	·0913	5. 7	·01540	21. 40	45 ·0	49 ·5
3. 9	17. 30	8. 18	·0922	12. 30	·01400			
3. 43	14. 30	8. 30	·0916	19. 52	·01870			
4. 55	14. 40	10. 25	·0929	23. 25	·01850			
5. 28	13. 30	10. 35	·0939					
6. 20	14. 0	10. 45	·0938					
	***	11. 0	·0932					
8. 0	10. 40	13. 0	·0929					
8. 15	11. 35	20. 0	·0951					
	***	23. 25	·0934					
8. 50:	8. 20	23. 59	·0924					
9. 12	9. 40							
	***							
10. 35	9. 39							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Jan. 25 h m	° ′ ″
10 .52	22. 10. 40
11 . 6	9. 20 ***
11. 56	9. 5
12. 45	12. 5
13. 7	11. 15
13. 55:	14. 25
14. 13	13. 0
15. 5	13. 0
15. 26	15. 40
16. 14	13. 30
16. 35	10. 10
17. 30	12. 30 ***
21. 55	10. 10
23. 59	11. 50
Jan. 26	
0. 25	22. 13. 0
2. 4	14. 50
4. 38	11. 30
5. 45	11. 15
7. 25	12. 20
9. 20	9. 35
10. 45:	10. 45
13. 17	13. 0
19. 30	12. 0
23. 20	10. 25
23. 59	11. 25
Jan. 27	
0 .30	22. 12. 0 ***
2. 50	14. 30
3. 35	12. 50
5. 0	12. 30
12. 17	11. 10
16. 5	12. 20
16. 48	13. 20
17. 47	10. 30
18. 38	10. 30
19. 38	11. 55 ***
21. 27	9. 30
23. 14	10. 0
23. 53	13. 0
Jan. 28	
0. 24	22. 15. 0
0. 45	15. 30
0. 51	13. 5
1. 3	15. 30 ***
1. 21	15. 45
2. 8	20. 5
2. 46:	16. 0 ***
4. 17	17. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
Jan. 26	
0. 15	·0925
4. 30	·0916
20. 15	·0950
23. 20	·0926
Jan. 27	
0. 18	·0922
16. 25	·0938
17. 33	·0948
19. 13	·0936
19. 40	·0943
21. 13	·0941
23. 0	·0914
23. 59	·0912
Jan. 28	
0. 30	·0910
0. 44	·0908
0. 50	·0900
1. 5	·0907
10. 25	·0930
15. 13:	·0925
15. 35	·0934
22. 5	·0926
23. 59	·0918

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for temperature.
h m	
Jan. 26	
	(†)
4. 48	·00950
8. 13	·00950 ·01130
11. 15	·01150
15. 17	·01320
21. 53	·01250
	(†)
Jan. 28	
0. 17	·01800
1. 0	·01785
2. 40	·01653
5. 31	·01292 ·01435
14. 34	·01540
18. 45	·01715
23. 14	·01890

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Jan. 26		
1. 40	47 ·7	49 ·0
3. 40	49 ·0	52 ·0
9. 40	50 ·5	52 ·5
21. 40	43 ·5	46 ·3
Jan. 27		
1. 40	48 ·0	52 ·0
3. 40	48 ·5	52 ·0
9. 40	48 ·0	52 ·0
21. 40	45 ·5	50 ·0
Jan. 28		
1. 40	49 ·0	53 ·0
3. 40	51 ·5	53 ·5
9. 40	51 ·0	54 ·0
21. 40	46 ·5	51 ·0

Göttingen Mean Solar Time.	Western Declination.
Jan. 28 h m	° ′ ″
4. 40	22. 19. 10
5. 5	16. 35
7. 5	12. 30
7. 40	14. 30
9. 43	11. 30
14. 25	10. 50
15. 13	9. 40
15. 30	10. 40
16. 0	9. 15
16. 50	12. 0
18. 7	12. 20
18. 26	10. 40
19. 11	12. 30 ***
21. 25	10. 30
22. 7	10. 0
22. 55	10. 25
23. 13	12. 30
Jan. 29	
0. 30	22. 11. 20 ***
2. 1	16. 0
2. 40	13. 25
4. 40	12. 0 ***
7. 58	11. 30
8. 34	10. 30 ***
12. 38	10. 50 ***
13. 30	7. 45 ***
14. 43	7. 5 ***
17. 18	11. 30 ***
20. 23	13. 30
20. 58	7. 30
21. 17	10. 30 ***
22. 2	12. 30
23. 15	13. 30
23. 23	12. 10
23. 59	13. 0
Jan. 30	
0. 38	22. 16. 30
0. 55	15. 30
1. 52	17. 0
2. 38	16. 25
3. 15	13. 50
5. 55	11. 30
7. 20	13. 0
7. 38	10. 0
8. 0	11. 30
8. 12	10. 25

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for temperature.
h m	
Jan. 29	
0. 40	·0914
7. 15	·0928
8. 45	·0918
12. 15	·0922
12. 35	·0930
13. 15	·0925
20. 20	·0936
21. 54	·0924
23. 59	·0930
Jan. 30	
0. 15	·0931
10. 5	·0938
10. 20	·0949
10. 50	·0930
13. 5	·0920
14. 0:	·0934
14. 50	·0918
16. 5	·0931
19. 50	·0936
20. 15	·0925 ***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Jan. 29	
0. 29	·01970
1. 5:	·01988
2. 30	·01957
4. 13	·01850
5. 13	·01702
5. 40	·01660
8. 17	·01512
8. 29	·01615
11. 24	·01625
14. 40:	·01682
19. 0	·01895
22. 48	·02053
Jan. 30	
0. 25	·02175
1. 48	·02270 ·02195
3. 17	·02248
5. 24	·02215
6. 38	·02175
9. 53	·02135
11. 33	·02085
13. 23	·02075
14. 8	·02035

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Jan. 29		
1. 40	49 ·0	52 ·0
3. 40	50 ·5	53 ·0
9. 40	51 ·0	54 ·0
22. 40	47 ·0	50 ·8
Jan. 30		
10. 10	48 ·0	50 ·5
21. 40	45 ·7	49 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Jan. 27. The adjustments of the Vertical Force Magnetometer were under alteration.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 30		Jan. 30		Jan. 30				
h m	° ′ ″	h m		h m		h m	°	°
8. 20	22. 11. 30	22. 47	·0930	18. 6	·02055			
9. 5	11. 40	23. 0	·0922	21. 31	·02125			
9. 51	9. 35	23. 38	·0919		·02205			
9. 53	7. 40			23. 7	·0215			
10. 13	4. 30							
10. 30	3. 0			23. 59	·02170			
10. 47	8. 40							
10. 51	8. 25							
11. 5	10. 20							
11. 15	8. 50							
11. 23	9. 25							
11. 51	4. 40							
13. 7	5. 40							
13. 27:	22. 7. 40							
14. 16:	21. 59. 15							
14. 35	22. 3. 0							
14. 53:	3. 20							
16. 3	10. 50							
16. 28	10. 0							
17. 25	13. 0							
	***							
18. 48	11. 20							
19. 36	12. 30							
20. 20	11. 35							
20. 30	13. 0							
	***							
22. 15	10. 40							
23. 48	12. 0							
Jan. 31		Jan. 31		Jan. 31		Jan. 31		
0. 8:	22. 15. 30	0. 30	·0922	0. 47	·02190	1. 40	46 ·0	49 ·8
0. 15	13. 0	4. 15	·0919	1. 40:	·02207	5. 40	49 ·7	52 ·2
0. 38	12. 0	4. 55	·0924	3. 29:	·02085	9. 40	50 ·8	53 ·0
1. 27	13. 30	5. 20	·0922	5. 35:	·01750	21. 40	41 ·8	45 ·3
1. 38	17. 0	5. 45	·0932	8. 15:	·01495			
1. 54	17. 25	6. 30	·0924	9. 53	·01480			
2. 6	15. 40		***	12. 21	·01560			
2. 35	16. 10	11. 15	·0925	14. 7	·01695			
	***	11. 30	·0916	17. 58	·02172			
5. 43	11. 35	11. 45	·0921		·02105			
6. 21	14. 0	12. 0	·0944	19. 0	·02130			
7. 25	11. 25	12. 45	·0918	22. 40	·02105			
9. 37	11. 0	13. 30	·0928	23. 59	·02125			
9. 55:	9. 55	20. 0	·0948					
10. 24	10. 25		***					
	***	23. 59	·0938					
10. 57	8. 30							
11. 22	22. 12. 0							
11. 53	21. 56. 10							
12. 47	22. 6. 40							
13. 5:	7. 0							
13. 49:	11. 0							
17. 0	13. 5							
22. 36	11. 30							
23. 59	13. 20							
Feb. 1		Feb. 1		Feb. 1		Feb. 1		
0. 20	22. 13. 30	0. 50	·0932	0. 18	·02135	1. 40	45 ·0	48 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 1		Feb. 1		Feb. 1		Feb. 1		
h m	° ′ ″	h m		h m		h m	°	°
0. 40	22. 13. 0	3. 5	·0921	3. 10:	·02065	3. 40	46 ·0	47 ·1
2. 36	14 10	4. 53	·0928	7. 58:	·01578	9. 40	47 ·1	48 ·3
2. 50	13. 30	5. 40	·0912	9. 52	·01505	21. 40	43 ·6	44 ·7
5. 54	13. 40	6. 36	·0931	14. 14	·01685			
5. 58	12. 40	8. 8	·0936	16. 47	·01725			
6. 32	11. 50	10. 11	·0930	17. 3	·01720			
6. 50	12. 35	10. 25	·0918	18. 40:	·01862			
7. 14	12. 30	10. 35	·0916	23. 32	·02130			
10. 17	22. 11. 0	11. 10	·0930					
	***	12. 0	·0928					
11. 6	21. 58. 0	13. 40	·0934					
	***	13. 50	·0942					
12. 22	22. 9. 40	16. 35	·0934					
	***	16. 57	·0950					
13. 55	14. 0		***					
14. 19	12. 0	18. 45	·0935					
15. 16	11. 30	18. 58	·0942					
15. 54	12. 40	21. 55	·0929					
16. 11	15. 35	22. 15	·0920					
16. 36	15. 30	22. 24	·0925					
16. 52	18. 0	23. 57	·0920					
17. 20	9. 40							
17. 52	12. 25							
18. 2	11. 0							
18. 41	11. 20							
18. 48	12. 30							
19. 11	11. 25							
	***							
20. 25	12. 40							
21. 19	15. 40							
	***							
22. 25	12. 30							
	***							
23. 25	12. 20							
23. 36	15. 0							
Feb. 2		Feb. 2		Feb. 2		Feb. 2		
0. 0.	22. 16. 20	0. 0	·0919	0. 0	·02132	1. 40	49 ·0	48 ·9
0. 40	16. 20	1. 50	·0900	1. 12	·02082	3. 40	49 ·2	52 ·3
	***	2. 45	·0914	2. 28	·01960	9. 40	51 ·0	53 ·1
1. 15	19. 40	3. 45	·0910	4. 58	·01565	21. 40	49 ·5	49 ·7
	***	4. 10	·0881	7. 30	·00650			
2. 10	16. 20		***	9. 46	·00655			
	***	5. 30	·0912	12. 24	·00652			
2. 45	18. 50	6. 30	·0906	14. 32	·00745			
	***	7. 18	·0918	19. 2	·01110			
3. 0	16. 50	7. 35	·0909	23. 33	·01650			
	***	8. 6	·0925					
3. 20	18. 25	8. 24	·0920					
3. 38	17. 0	9. 55	·0927					
3. 56	18. 30	10. 26	·0918					
4. 28	4. 55	10. 40	·0926					
4. 32	5. 35	13. 10	·0930					
4. 38	5. 0	13. 35	·0924					
5. 6	9. 0	17. 50	·0938					
5. 43:	16 20		***					
7. 2:	14. 20	21. 55	·0932					
7. 43	5. 0	23. 30	·0922					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Feb. 2								
h m	° ′	h m		h m		h m		°
8. 17	22. 12. 30							
	***							
9. 57	11. 30							
	***							
11. 16	12. 0							
	***							
13. 30:	8. 20							
	***							
15. 54	13. 0							
17. 24	12. 40							
17. 49	11. 30							
	***							
19. 32	13. 25							
	***							
20. 40	11. 0							
	***							
23. 40	12. 30							
	***							
Feb. 3		Feb. 3		Feb. 3		Feb. 3		
0. 0	22. 12. 40	0. 0	·0920	0. 0	·01357	1. 40	48 ·0	51 ·0
1. 15	13. 0	2. 25	·0912	3. 45:	·01135	3. 40	49 ·8	52 ·2
1. 32	14. 20	4. 8	·0910	7. 5	·00790	9. 40	49 ·6	52 ·5
3. 36	12. 15	9. 0	·0928	8. 6	{ ·00750	21. 40	44 ·8	49 ·0
6. 15:	9. 0	9. 24	·0925		{ ·00983			
6. 47	11. 25	10. 0	·0930	9. 37	·00995			
9. 2	11. 50	10. 45	·0922	13. 35	·01097			
10. 19	13. 55	12. 24	·0934	19. 35	·01430			
	***		***	21. 17	·01473			
11. 32	11. 30	16. 40	·0934	23. 30	·01588			
13. 1	10. 30	17. 0	·0940					
13. 20	11. 40		***					
	***	19. 30	·0942					
15. 2	11. 0	20. 32	·0928					
	***		***					
15. 25	8. 20	21. 52	·0936					
	***		***					
16. 35	6. 25	23. 59	·0918					
17. 3	12. 40							
17. 52	12. 35							
	***							
19. 1	11. 30							
	***							
20. 4	14. 0							
	***							
20. 41	19. 0							
	***							
21. 20	14. 10							
21. 25	16. 40							
21. 28	15. 0							
21. 32	17. 50							
21. 35	15. 50							
	***							
22. 8	14. 25							
	***							
23. 59	14. 30							
	***							

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Hor zontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Feb. 4		Feb. 4		Feb. 4		Feb. 4		
h m	° ′	h m		h m		h m		°
0. 32	22. 15. 0	0. 10	·0915	0. 40	·01582	1. 40	49 ·0	53 ·0
0. 38	13. 25		***	2. 58	·01398	3. 40	51 ·0	53 ·0
0. 50	16. 0	1. 45	·0920	3. 45	·01315	9. 40	50 ·0	52 ·7
1. 8	14. 0	2. 45	·0904	6. 21	·00950	21. 40	44 ·7	48 ·3
1. 47	15. 30	3. 50	·0926	6. 24	·01040			
2. 16	15. 30	5. 14	·0912	7. 22	·01000			
	***		***	7. 56	·01038			
2. 55	10. 50	5. 50	·0910	11. 24	·01085			
	***	7. 15	·0924	13. 58	·01348			
5. 28	10. 0	7. 55	·0904	18. 39	·01612			
6. 10	13. 50	8. 12	·0925	23. 25	·01880			
	***	8. 25	·0920					
6. 45:	11. 25	11. 45	·0935					
7. 13:	13. 20	12. 30	·0929					
7. 31:	12. 0	13. 15	·0939					
7. 42:	12. 40	14. 0	·0932					
8. 0:	10. 35		* *					
8. 12:	11. 40	17. 0	·0933					
8. 33:	9. 0	17. 8	·0928					
8. 52:	10. 0	17. 40	·0940					
10. 24	8. 50	18. 0	·0954					
	***		***					
13. 13	12. 0	19. 15	·0942					
	***	22. 3	·0926					
14. 55	10. 50	23. 59	·0922					
	***							
16. 57	14. 20							
	***							
18. 30	11. 20							
	***							
18. 41	13. 35							
19. 12:	12. 20							
19. 41:	0. 55							
20. 15:	11. 0							
20. 32:	8. 55							
	***							
23. 20	12. 0							
Feb. 5		Feb. 5		Feb. 5		Feb. 5		
0. 0	22. 13. 50	0. 5	·0922	0. 52	·01893	1. 40	47 ·0	50 ·0
0. 43	13. 0	0. 45	·0922	4. 17:	·01620	3. 40	50 ·0	51 ·8
1. 8	15. 30	1. 20	·0910	6. 47:	·01260	9. 40	49 ·5	53 ·0
1. 20	13. 0	1. 45	·0915	8. 17	·01128	23. 17	43 ·0	47 ·0
1. 36	14. 5		***	8. 44	·01060			
	***	4. 30	·0916	10. 48	·01075			
4. 45	11. 0	5. 10	·0906	13. 46	·01190			
	***	5. 55	·0916	14. 6	·01173			
5. 34	7. 0	6. 15	·0904	18. 47	·01446			
5. 54	9. 0	6. 30	·0918	23. 36	·01640			
6. 15:	1. 10	7. 13	·0918					
6. 45	8. 30	7. 20	·0904					
7. 38	8. 0	7. 35	·0908					
7. 57:	2. 40	7. 54	·0901					
8. 25	11. 30	8. 20	·0935					
8. 47	3. 0	8. 44	·0908					
9. 10	8. 25	8. 57	·0917					
9. 23:	5. 25	9. 20	·0893					
9. 44	8. 55	10. 22	·0912					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 5		Feb. 5						
h m	° ′	h m		h m		h m	°	°
10. 15	22. 8. 25	13. 30	·0918					
	***	13. 50	·0938					
13. 47	12. 0	14. 35	·0916					
13. 53	16. 40	14. 55	·0916					
14. 21	10. 10	15. 15	·0924					
14. 54	13. 20	18. 30	·0923					
	***	18. 55	·0936					
16. 27	9. 20	20. 30	·0924					
	***	21. 15	·0926					
18. 8	13. 0	21. 46	·0922					
18. 30:	6. 40	23. 8	·0912					
19. 9:	12. 30	23. 59	·0916					
19. 32	13. 30							
19. 49	12. 20							
21. 0	12. 10							
21. 15	14. 5							
21. 25	12. 50							
	***							
23. 30	14. 25							
	***							
Feb. 6		Feb. 6		Feb. 6		Feb. 6		
0. 2	22. 13. 30	0. 5	·0918	0. 22	·01695	11. 15	46 ·0	49 ·0
	***		***	3. 13:	·01732	21. 40	44 ·5	47 ·5
0. 40	13. 25	1. 2	·0918	8. 8:	·01625			
0. 52	15. 0	1. 8	·0928	14. 4	·01650			
0. 55	13. 40	1. 10	·0918	19. 30	·01862			
1. 5	16. 35	1. 15	·0922	22. 7	·01924			
	***	1. 35	·0911	23. 38	·01995			
1. 42	13. 10							
2. 30	12. 0	2. 0:	·0912					
	***	2. 22	·0921					
4. 31	11. 30		***					
5. 11	5. 40	4. 20	·0916					
5. 40	6. 20	5. 5	·0903					
5. 52	10. 25		***					
6. 53	12. 30	5. 55	·0922					
8. 38	10. 40	9. 50	·0924					
9. 8	12. 30	10. 2	·0948					
9. 28	9. 35	10. 30	·0930					
9. 48	10. 25	11. 5	·0920					
9. 54	2. 30	12. 4	·0921					
10. 4	6. 0	12. 17	·0930					
10. 23	7. 40	16. 30	·0922					
10. 38	6. 30	19. 45	·0930					
10. 53	9. 0	20. 15	·0929					
11. 8	8. 0	20. 44	·0920					
	***	23. 30	·0917					
12. 13	12. 0							
12. 32	10. 20							
12. 43	12. 40							
12. 53	12. 40							
13. 2	11. 20							
13. 52	13. 40							
14. 11	12. 0							
15. 8:	14. 20							
15. 31	11. 20							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 6								
h m	° ′	h m		h m		h m	°	°
16. 33	22. 12. 40							
17. 8	12. 0							
18. 5	13. 30							
18. 41:	11. 0							
19. 21	13. 2							
	***							
21. 24	11. 10							
	***							
23. 35	13. 0							
Feb. 7		Feb. 7		Feb. 7		Feb. 7		
0. 0	22. 13. 40	0. 8	·0918	0. 45	·01993	1. 40	47 ·7	50 ·5
0. 21	13. 0	4. 30	·0908	2. 5:	·01845	3. 40	50 ·0	52 ·2
1. 48	14. 20	7. 15	·0914	3. 44:	·01650	9. 40	49 ·0	52 ·0
4. 16	11. 0	8. 2	·0908	6. 8	·01228	21. 40	45 ·0	48 ·0
5. 50	10. 25	12. 15	·0916		·01358			
6. 50	11. 50	12. 32	·0949	10. 5	·01435			
7. 25	10. 40	13. 35	·0920	13. 34	·01610			
7. 47	11. 30	19. 20	·0934	19. 13	·01982			
8. 15	9. 35	20. 45	·0922	22. 27	·02075			
11. 13	11. 20		***		·01964			
12. 6	10. 20	22. 5	·0930	23. 20	·01995			
12. 19	2. 10	23. 25	·0910					
12. 36	5. 30							
14. 6	11. 40							
17. 41	12. 25							
19. 10	11. 10							
20. 28	10. 40							
	***							
21. 30	13. 35							
	***							
22. 23	14. 30							
23. 22	13. 25							
Feb. 8		Feb. 8		Feb. 8		Feb. 8		
0. 0	22. 13. 30	0. 0	·0912	0. 51:	·02057	1. 40	47 ·0	49 ·3
0. 24	13. 0	0. 45	·0910	5. 43:	·01773	3. 40	49 ·0	50 ·8
	***	7. 15	·0916	8. 40	·01695	9. 40	48 ·3	51 ·8
2. 25	15. 30	7. 32	·0906	8. 52	·01756	21. 40	42 ·3	47 ·3
4. 43	12. 20	8. 2	·0915	11. 22	·01860			
5. 47	11. 0	9. 45	·0916	14. 3	·02055			
6. 8	9. 30	10. 0	·0927		·02021			
7. 5	11. 50	10. 15	·0923	18. 51	·02058			
7. 25	8. 40	10. 45	·0920	23. 59	·02038			
7. 53	7. 50	10. 53	·0927					
8. 43:	10. 35	12. 45	·0924					
9. 22:	8. 40	19. 50	·0942					
9. 44	9. 30	21. 24	·0936					
9. 53	7. 30	22. 15	·0938					
10. 20	7. 50	22. 50	·0928					
10. 36	9. 30	23. 59	·0922					
14. 16	11. 40							
18. 45	11. 40							
20. 42	11. 0							
21. 15	12. 20							
21. 46	11. 25							
	***							
23. 59	11. 30							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time	Horizontal force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Reading of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Feb. 9	° ′ ″	Feb. 9		Feb. 9		Feb. 9		
h		h m		h m		h m		
0. 8	22. 11. 30	0. 35	·0918	0. 34	·02015	1. 40	46·5	48·5
1. 4	11. 0	1. 45	·0916	3. 57:	·01585	3. 40	48·7	52·0
4. 50	12. 5	13. 43	·0930	6. 37:	·01173	9. 40	48·5	52·5
10. 42	10. 20	20. 0	·0940	9. 6:	·01036	21. 40	44·8	48·8
13. 8	10. 35	23. 59	·0920	9. 38	·01040			
17. 22	12. 20			13. 47:	·01152			
21. 17	10. 0			19. 49	·01535			
23. 0	10. 0			23. 58	·01700			
3. 52	11. 50							
Feb. 10		Feb. 10		Feb. 10		Feb. 10		
0. 15	22. 15. 0	0. 8	·0918	1. 0:	·01716	1. 40	47·0	50·0
2. 45	14. 0	2. 45	·0926	5. 2:	·01426	3. 40	49·0	52·0
4. 23	11. 50	3. 40	·0922	8. 23	·01220	9. 40	49·0	52·5
6. 55	16. 20	5. 15	·0926	12. 18	·01287	21. 40	42·0	45·0
	***	6. 15	·0929	17. 10	·01666			
9. 38	10. 40	7. 15:	·0911	22. 41	·02020			
	***	8. 30	·0924		·01931			
10. 20	22. 6. 0		***	23. 59	·01975			
10. 35	21. 56. 10	10. 14	·0922					
11. 6	22. 6. 20	10. 30	·0930					
11. 36	21. 55. 50	11. 8	·0912					
11. 53	58. 20	11. 44	·0930					
12. 33:	21. 58. 40	12. 40	·0905					
13. 4	22. 3. 20	15. 34	·0923					
15. 4	12. 5	15. 40	·0928					
15. 41	10. 30	17. 22	·0928					
15. 50	11. 40	18. 0:	·0938					
16. 15	8. 20	18. 45	·0936					
17. 22:	15. 10	21. 30	·0936					
18. 5:	9. 30	23. 55	·0921					
19. 0	11. 30							
	***							
22. 56	11. 20							
	***							
23. 52	13. 30							
Feb. 11		Feb. 11		Feb. 11		Feb. 11		
0. 15	22. 14. 0	0. 0	·0916	0. 31	·01998	1. 40	45·0	48·0
1. 27	13. 25		***	3. 8	·01920	3. 40	45·0	51·5
1. 51	16. 0	3. 45	·0920		·01585	9. 40	47·0	51·0
	***	4. 38	·0913	5. 30	·01320	21. 40	41·0	45·8
5. 30	11. 20		***	7. 43:	·01073			
	***	9. 47	·0930	9. 42	·01038			
11. 42	11. 0		***	12. 0	·01130			
12. 5	8. 40	11. 10	·0923	14. 6	·01263			
13. 0	10. 30	12. 57	·0924	19. 40	·01800			
13. 15:	8. 30	13. 15:	·0939	23. 59	·01908			
	***	14. 45:	·0925					
15. 25	5. 55	15. 20	·0931					
	***	16. 15	·0926					
17. 26	12. 25	18. 15	·0937					
	***	21. 15	·0940					
21. 0	12. 10	23. 15	·0928					
23. 12	13. 30							
Feb. 12		Feb. 12		Feb. 12		Feb. 12		
c	22. 14. 15	0. 5	·0923	0. 16:	·01910	1 ·40	44·0	47·5

Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 12	° ′ ″	Feb. 12		Feb. 12		Feb. 12		
h		h m		h m		h m		
0. 41	22. 14. 5	0. 30	·0922	3. 18:	·01690	3. 40	45·5	50·0
1. 20	16. 25	0. 45	·0918	5. 24:	·01430	9. 40	45·0	47·5
1. 35	15. 30	1. 15	·0920	7. 47:	·01340	23. 40	41·0	44·7
2. 14	15. 40	3. 40	·0924	6. 30	·01870			
2. 24:	14. 40	3. 50	·0928		·01842			
2. 38	15. 35	4. 0	·0917	23. 59	·01805			
4. 25	14. 20	7. 30	·0928					
11. 35	11. 30	7. 36	·0931					
12. 57	14. 15	10. 57	·0922					
13. 7	10. 25	12. 20	·0925					
13. 23	9. 30	12. 30	·0933					
	***	13. 15	·0922					
14. 45	12. 40	13. 45	·0926					
18. 9	11. 25	14. 5	·0925					
21. 42	12. 0	17. 10	·0932					
23. 30	17. 0	19. 30	·0932					
23. 54	16. 40	20. 0	·0928					
		20. 30:	·0932					
		20. 55	·0925					
		21. 11	·0929					
		21. 38	·0925					
		23. 58	·0920					
Feb. 13		Feb. 13		Feb. 13		Feb. 13		
0. 0	22. 17. 0	0. 0	·0920	0. 15	·01803	9. 40	42·0	46·0
	***	0. 45	·0924	8. 20	·01660	21. 40	38·0	43·5
2. 13	17. 25	0. 50	·0918	12. 20	·01712			
4. 46	12. 0	1. 0	·0924	15. 27	·01840			
	***	4. 0	·0938		·01806			
6. 53	13. 55	4. 48	·0936	18. 25	·01832			
7. 45	13. 30	4. 55	·0930	18. 32	·01750			
	***	5. 0	·0944	22. 51	·01795			
18. 21	8. 40	5. 36	·0938	23. 22	·01760			
	***	6. 53	·0942					
18. 41	11. 30	7. 30	·0937					
	***	8. 23	·0946					
19. 45	10. 0		***					
21. 5	12. 0	12. 25	·0943					
	***	12. 36	·0937					
21. 42	11. 30	18. 0	·0940					
	***	18. 45:	·0932					
22. 2	14. 50		* *					
22. 32	13. 15	19. 52	·0949					
23. 5	19. 0		* *					
23. 12	13. 30	22. 27	·0926					
23. 59	20. 30	22. 45	·0918					
		22. 51	·0924					
		23. 20	·0920					
		23. 59	·0917					
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
0. 30:	22. 20. 30	0. 30	·0912	0. 16:	·01745	1. 40	42·0	45·0
1. 0	25. 30	0. 40	·0901	3. 43	·01535	3. 40	44·5	47·0
1. 20	26. 0	1. 13	·0892	4. 2	·01570	9. 40	45·0	48·0
1. 37	22. 0	1. 25	·0900	6. 38	·01240	21. 40	33·0	37·5
2. 45	24. 0	1. 36	·0897	7. 1	·01268			
2. 52	26. 40	2. 23	·0911	7. 38	·01072			
3. 11:	24. 20	2. 50	·0910		***			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the dislacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 14		Feb. 14		Feb. 14				
h m	° ′ ″	h m		h m		h m	°	°
3. 25	22. 28. 0	2. 55	·0918	8. 53	·01080			
	***	3. 23	·0912	9. 55	·01020			
3. 40	28. 0	3. 31	·0900	10. 40	·01045			
	***	4. 15	·0891	11. 35	·00934			
3. 50	25. 15	4. 40	·0904	12. 6	·01005			
	***	5. 0	·0898	15. 53	·01210			
4. 2	28. 40	5. 24	·0906	16. 3	·01192			
4. 17	14. 15	5. 33	·0902	18. 2	·01370			
4. 46	22. 40	6. 35	·0907	19. 40	·01577			
5. 8	19. 10	6. 52	·0882	22. 32	·01830			
5. 45	23. 0	7. 7	·0928		·01790			
	***	7. 9	·0920	23. 59	·01810			
6. 32	21. 0	7. 23	·0936					
6. 43	22. 30	7. 40	·0891					
7. 3	2. 30	7. 50	·0900					
7. 13	8. 0	8. 8	·0870					
7. 16	6. 0	8. 25	·0883					
7. 38	23. 30	8. 35	·0874					
7. 46	17. 30	8. 49	·0886					
7. 58	18. 35	9. 10	·0884					
8. 5	22. 30	9. 32	·0897					
8. 13	14. 15	9. 40	·0914					
8. 47	8. 20	10. 0	·0896					
8. 54	11. 15	10. 8	·0902					
9. 3	5. 5	10. 24:	·0891					
9. 15	10. 0	10. 45	·0924					
9. 19	8. 15	10. 50	·0922					
9. 27	9. 30	10. 54	·0936					
9. 36	5. 30	11. 4	·0928					
9. 53	14. 50	11. 17	·0947					
10. 2	13. 0	11. 40	·0894					
10. 11	15. 0	11. 52	·0908					
10. 36	7. 0	12. 0	·0904					
	***	12. 12	·0914					
10. 51	10. 0	12. 25	·0900					
	***	12. 52	·0905					
11. 2	9. 0	13. 40:	·0896					
11. 9	5. 15	14. 15	·0917					
11. 27:	15. 30	14. 50	·0894					
11. 46	4. 30	15. 30	·0914					
11. 52	6. 25	15. 37	·0910					
12. 1	5. 40	15. 45	·0916					
12. 19	9. 30	16. 0	·0906					
12. 50:	5. 0	16. 23	·0920					
13. 35	3. 50	16. 46	·0915					
13. 53	7. 5	17. 17	·0929					
14. 8	2. 40	17. 45	·0916					
14. 30	3. 0		***					
15. 3	13. 0	18. 53	·0915					
15. 38:	4. 0	19. 45	·0925					
15. 50	11. 35	20. 30	·0918					
16. 13	3. 40	21. 14	·0892					
16. 43	8. 30	21. 30	·0906					
	***	22. 11	·0898					
18. 13	9. 50	23. 7	·0906					
18. 21	12. 40	23. 59	·0898					
18. 38	12. 20							
18. 44	10. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 14								
h m	° ′ ″	h m		h m		h m	°	°
18. 52	22. 13. 0							
19. 42	10. 25							
20. 8	11. 20							
	***							
20. 15	15. 30							
	***							
20. 57	15. 0							
	***							
21. 8	17. 20							
21. 23	15. 30							
21. 32	20. 25							
21. 41	21. 40							
	***							
22. 25	16. 30							
22. 56	15. 35							
23. 5	17. 0							
23. 46	16 50							
Feb. 15		Feb. 15		Feb. 15		Feb. 15		
0. 15	22. 20. 0	0. 5	·0900	1. 15:	·01840	1. 40	40	45
1. 30	17. 25	1. 15	·0900	4. 29:	·01628	3. 40	42	44
4. 55	13. 10	6. 45	·0920	8. 18:	·01388	9. 40	43	45
6. 25	12. 0	9. 35	·0918	13. 20:	·01462	21. 40	41	43
9. 50	13. 0	11. 40	·0922	21. 51	·01425			
10. 25:	10. 40	13. 30	·0913	23. 59	·01512			
10. 52	11. 35	15. 47	·0915					
11. 37	10. 0	18. 0	·0924					
13. 2	9. 50	20. 8	·0927					
14. 30	11. 30	23. 59	·0910					
14. 52	10. 10							
17. 0	11. 25							
18. 5	10. 15							
23. 59	14. 0							
Feb. 16		Feb. 16		Feb. 16		Feb. 16		
0. 15	22. 15. 50	0. 0	·0910	1. 15	·01512	1. 40	44	48
2. 33	17. 0	1. 50	·0904	1. 42:	·01427	3. 40	46	48
5. 10	12. 30	4. 23	·0912	3. 13	·01200	10. 3	49	51
6. 30	14. 5	7. 7	·0904	5. 47	·00685	21. 40	49	54
7. 8	13. 35		***		(†)			
	***	9. 30	·0886	7. 38	·00672			
7. 46	16. 0	9. 43	·0890	12. 2	·00850			
	***	9. 55	·0886	18. 10	·01500			
9. 7	12. 0	11. 15	·0894	18. 41	·01517			
9. 20	13. 25	11. 50	·0896	22. 0	·01825			
10. 12	8. 40	12. 5	·0900	22. 34	·01805			
10. 36	8. 20	12. 17	·0896	23. 59	·01825			
10. 58	9. 40	12. 38	·0902					
11. 13	7. 50	12. 50	·0898					
11. 47	8. 20	13. 15	·0898					
12. 15	12. 25	13. 37	·0912					
12. 32	9. 0	13. 44	·0906					
	***	14. 30	·0900					
12. 55	10. 30	15. 0	·0907					
13. 30	6. 15	15. 45	·0904					
13. 45	10. 30	15. 50	·0900					
14. 23:	4. 20	16. 0	·0908					
	***	18. 0	·0912					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

February 16. Vertical Force Magnet. Between $5^h.\ 47^m.$ and $7^h.\ 38^m.$ the spot of light fell off the sheet.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 16		Feb. 16						
h m	° ′ ″	h m		h m		h m	°	°
16. 7	22. 9. 0	18. 40	·0938					
	***		***					
17. 16	7. 30	19. 37	·0930					
17. 45	9. 30		***					
17. 56	7. 30	19. 52	·0938					
18. 20	14. 0		***					
	***	20. 8	·0930					
19. 50	7. 30		***					
	***	20. 45	·0930					
20. 5	11. 30		***					
20. 24	10. 0	21. 30	·0910					
	***	21. 34	·0915					
20. 54	13. 0	22. 0	·0912					
	***	22. 4	·0906					
21. 13	14. 0		***					
	***	22. 25	·0917					
21. 34	11. 0		***					
	***	23. 20	·0901					
21. 59	12. 20							
22. 1	9. 50							
22. 4	10. 25							
22. 7	9. 40							
22. 21	13. 39							
	***							
23. 32	16. 25							
23. 46	14. 20							
23. 51	17. 15							
23. 59	14. 30							
Feb. 17				Feb. 17		Feb. 17		
0. 45	22. 17. 30			0. 23	·01835	1. 40	43 ·0	45 ·7
1. 32	15. 0			1. 52	·01808	3. 40	44 ·5	47 ·0
2. 5:	18. 20			6. 53	·01420	9. 40	44 ·0	47 ·5
2. 45	15. 0			9. 17:	·01337	21. 40	38 ·5	42 ·6
3. 35	17. 0			12. 13	·01366			
4. 17	13. 15			15. 0	·01486			
5. 23	12. 30			19. 36	·01845			
6. 45	13. 0			20. 39	·01848			
	***			21. 30	·01826			
8. 3	6. 40			21. 37	·01768			
8. 47	11. 30			22. 40	·01813			
	***			23. 59	·01795			
11. 10	9. 0							
11. 18	11. 30							
11. 31	5. 10							
11. 46	7. 0							
12. 29:	7. 0							
12. 46	10. 30							
14. 35	11. 40							
20. 45	10. 30							
	***							
23. 52	14. 35							
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
0. 10	22. 16. 30	0. 45	·0893	0. 30	·01785	1. 40	43 ·0	45 ·5
0. 28	16. 20	1. 54	·0890	6. 30	·01080	3. 40	45 ·0	47 ·2
0. 46	17. 30	3. 5	·0904		†			
1. 17	16. 15	4. 55	·0902	9. 25	·00948	9. 40	44 ·5	48 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
h m	° ′ ″	h m		h m		h m	°	°
1. 48	22. 13. 15	6. 38	·0916	11. 45	·01000	21. 40	36 ·0	42 ·5
3. 7	12. 35	7. 0	·0912	20. 39	{ ·01822			
3. 43	13. 50	7. 24	·0912		{ ·00798			
4. 30	12. 30	7. 43	·0916	23. 59	·01803			
6. 38	12. 0	10. 0	·0918					
7. 26	13. 25	10. 20	·0914					
10. 16:	11. 0	10. 45:	·0933					
10. 35:	22. 5. 25	11. 9	·0934					
11. 43:	21. 57. 40	11. 50	·0912					
12. 5	22. 12. 30	12. 10	·0906					
13. 6	9. 20	15. 15	·0922					
	***	19. 53	·0928					
16. 13	13. 0	21. 50	·0922					
	***	22. 39	·0912					
18. 43	11. 10	23. 59	·0908					
21. 20	11. 0							
22. 37	11. 30							
23. 59	15. 10							
Feb. 19		Feb. 19		Feb. 19		Feb. 19		
0. 20	22. 14. 20	0. 0	·0906	0. 30	·01803	1. 40	40 ·5	42 ·8
2. 3	14. 30	6. 15	·0911	3. 9	·01583	3. 40	40 ·5	42 ·5
4. 55	10. 25	7. 14	·0918	5. 10	·01107	9. 40	44 ·0	45 ·0
6. 55	10. 0	8. 45	·0916	6. 37	·00820	23. 1	34 ·0	40 ·5
8. 0	11. 15	16. 40	·0937		†			
16. 8	11. 30	17. 18	·0944	13. 44	·00852			
16. 32:	13. 50	17. 38	·0944	17. 25:	·01380			
	***	17. 50	·0940	20. 48	·01713			
17. 15	11. 10	18. 4	·0946	23. 5	·01710			
17. 50	14. 30	19. 7	·0950					
18. 22	12. 20	19. 50	·0942					
18. 36	13. 15	22. 0	·0942					
18. 43	12. 20	23. 59	·0930					
19. 14	10. 10							
	***							
20. 57	13. 20							
	***							
22. 41	12. 10							
	***							
23. 59	14. 40							
	***							
Feb. 20		Feb. 20		Feb. 20		Feb. 20		
0. 15	22. 15. 30	0. 15	·0935	0. 9	{ ·01720	11. 3	41 ·0	43 ·0
	***	0. 44:	·0927		{ ·01612	21. 40	38 ·5	43 ·0
1. 31	16. 30	1. 4	·0934		***			
1. 38	20. 30	1. 45	·0924	3. 2:	·01500			
	***	1. 59	·0938	5. 24:	·01180			
2. 2	20. 0	2. 30	·0924	7. 2	·00900			
2. 11	17. 0	2. 53	·0924		†			
	***	3. 4	·0918	20. 7	·00902			
2. 40	17. 25	3. 24	·0926	21. 45	·00930			
2. 50	15. 30	7. 5	·0930	23. 59	·01110			
3. 2	18. 25	10. 30	·0928					
3. 5	16. 40		***					
3. 28	15. 5	11. 23	·0946					
5. 40	12. 0	11. 30	·0932					
10. 51	11. 0	11. 45	·0928					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

February 17. The Horizontal Force Magnet was in contact with the copper damper.

February 19. Vertical Force Magnet. The spot of light was off the sheet from $6^h.\ 37^m.$ till $13^h.\ 44^m.$; and on February 20, from 7^h till $20^h.$

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Reading of Thermometers. Of H. F. Magnet.	Reading of Thermometers. Of V. F. Magnet.
Feb. 20		Feb. 20						
h m	° ′ ″	h m		h m		h m		
11. 5	22. 5. 20	13. 30	·0426					
11. 55	10. 45	13. 45	·0923					
12. 20:	7. 20	14. 15	·0923					
12. 35	9. 30	14. 30	·0926					
13. 11:	4. 0	14. 37	·0924					
14. 21	11. 0	15. 5	·0930					
14. 49:	19. 10	15. 23	·0936					
15. 23:	8. 0	15. 50:	·0932					
15. 41:	10. 40	16. 8:	·0936					
16. 27	12. 25	16. 44	·0930					
17. 54	9. 0	17. 0:	·0936					
18. 3	7. 30	17. 30:	·0930					
18. 27	10. 30	17. 50	·0936					
20. 46	8. 50	18. 15	·0931					
22. 50	13. 0	18. 46	·0940					
23. 50	17. 5		***					
		19. 45:	·0933					
		20. 0	·0939					
		20. 15	·0939					
		21. 4	·0924					
		21. 30	·0926					
		22. 30	·0926					
		23. 45	·0894					
Feb. 21		Feb. 21		Feb. 21		Feb. 21		
0. 0:	22. 15. 35	0. 0	·0900	0. 15	·01115	1. 40	43 ·048	·0
0. 40	21. 0	0. 23	·0884		***	3. 40	44 ·847	·5
2. 27	17. 20	0. 45	·0890	1. 37:	·01090	9. 40	46 ·049	·0
	***	1. 0	·0888		***	21. 40	38 ·541	·5
2. 52	19. 25	1. 26	·0900	2. 58	·00976			
	***	2. 30	·0908	3. 58	·00730			
3. 54	17. 25	3. 7	·0898		†			
	***	3. 50	·0902	12. 59	·00740			
5. 25	12. 30	3. 59	·0928	19. 25:	·01396			
	***	4. 3	·0902	22. 2	·01720			
5. 48	17. 0		***	23. 28	·01705			
5. 58	10. 30	5. 20	·0896					
6. 8	12. 20	5. 34	·0928					
6. 10	11. 20	5. 45	·0896					
6. 22	13. 30		***					
6. 32	11. 40	6. 50	·0898					
6. 50	11. 25	7. 8	·0885					
7. 1	15. 30	7. 30	·0897					
7. 15:	10. 50	7. 38	·0880					
7. 35	17. 0	7. 54	·0888					
7. 45	8. 5	8. 7	·0880					
7. 58	13. 20	8. 27	·0880					
	***	8. 36	·0887					
8. 32	8. 0	8. 50	·0882					
8. 44	10. 35	9. 15	·0892					
9. 9	5. 0	9. 30	·0880					
9. 29	8. 35		***					
9. 38	1. 35	11. 20	·0892					
9. 55	5. 30	12. 0	·0893					
10. 16	2. 30	12. 15	·0900					
10. 45	4. 25	12. 45	·0894					
11. 18	1. 35	13. 30	·0905					
12. 0	3. 30	14. 34	·0904					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Reading of Thermometers. Of H. F. Magnet.	Reading of Thermometers. Of V. F. Magnet.
Feb. 21		Feb. 21						
h m	° ′ ″	h m		h m		h m		
12. 22	22. 0. 30	15. 9	·0914					
12. 36	2. 25	16. 0	·0912					
12. 47	2. 15	17. 25	·0922					
13. 9	22. 6. 35	18. 23	·0917					
14. 18	21. 59. 10		***					
15. 6	22. 4. 30	22. 15	·0910					
15. 16	3. 30		***					
15. 29	6. 5	23. 15	·0902					
	***	23. 59	·0902					
15. 57	5. 0							
	***							
17. 18	8. 25							
17. 30	6. 40							
18. 53	9. 45							
20. 3	8. 45							
22. 51	11. 30							
23. 59	14. 0							
Feb. 22		Feb. 22		Feb. 22		Feb. 22		
0. 30	22. 14. 30	0. 30	·0904	0. 33	·01742	1. 40	41 ·4	·3
0. 50	18. 10	0. 55	·0910	3. 15:	·01542	3. 40	43 ·7	·5
1. 48	19. 0	1. 15	·0905	7. 3	·00882	9. 40	46 ·549	·0
2. 18	17. 20	2. 4	·0904		†	21. 40	44 ·4	·0
2. 55	21. 0	2. 15	·0895					
3. 17	19. 20	2. 45	·0904					
	***	3. 20	·0898					
4. 7	20. 20	4. 2	·0904					
5. 21	14. 35	4. 14	·0897					
6. 47	14. 35	5. 45	·0904					
7. 27	11. 10	6. 37	·0906					
7. 45	12. 45	6. 46	·0901					
	***	8. 15	·0902					
8. 8	11. 30	8. 32	·0894					
8. 27	14. 25	8. 46	·0904					
8. 42	11. 10	9. 8	·0894					
8. 57:	12. 45	9. 45	·0905					
9. 28	9. 50	11. 15	·0910					
	***	11. 53	·0914					
11. 37	12. 0	12. 20	·0908					
12. 22	9. 30	13. 15	·0912					
13. 0	11. 30	13. 48	·0908					
18. 0	12. 30	18. 20	·0920					
18. 32	10. 30	18. 50	·0910					
19. 2	12. 0	19. 50	·0919					
	***	22. 3	·0898					
22. 2	11. 55	23. 59	·0886					
23. 59	17. 15							
Feb. 23		Feb. 23		Feb. 23		Feb. 23		
0. 13	22. 18. 0	0. 0	·0886		†	1. 40	43 ·4	·3
0. 53	20. 15	1. 14	·0892	11. 37	·00807	3. 40	44 ·1	·5
2. 17	16. 20	1. 26	·0886	18. 20	·01830	9. 40	46 ·1	·2
2. 52	16. 15	2. 23	·0892	20. 30	·01823	21. 40	39 ·2	·6
3. 1	18. 10	2. 45	·0894	22. 16	·01775			
	***	3. 4	·0902	23. 45	·01785			
3. 32	17. 0	4. 33	·0886					
	***	5. 0	·0898					
4. 35	3. 20	11. 24	·0906					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Feb. 21. Vertical Force Magnet. The spot of light was off the sheet from 4h. to 13h.

Feb. 22 and 23. Vertical Force Magnet. The spot of light was off the sheet from February 22d. 7h. till 23. 11. 3.

Göttingen Mean Solar Time.	Western Declination.
Feb. 23	
h m	°
5. 28	22. 9. 30
8. 15	9. 25
11. 37	10. 30
12. 8:	6. 45
12. 45	10. 30
17. 57	11. 45
20. 35	9. 0
22. 18	9. 20
23. 43	13. 0
Feb. 24	
0. 15	22. 14. 25
1. 30	15. 0
1. 53	14. 10
2. 15	15. 0
	***
5. 28	12. 0
12. 52	11. 0
13. 35	8. 30
14. 13	9. 30
15. 5	8. 30
17. 36	11. 20
20. 50	9. 30
22. 5	11. 0
23. 59	16. 25
Feb. 25	
0. 35	22. 18. 10
1. 10	16. 40
2. 1	17. 0
2. 20	16. 0
6. 25	12. 30
	***
9. 17	13. 30
9. 35	8. 45
10. 4	8. 30
10. 32	11. 20
	***
11. 32	9. 50
12. 45	11. 30
13. 47	7. 25
15. 43	10. 30
17. 40	11. 5
21. 55	10. 0
Feb. 26	
0. 0	22. 12. 50
3. 0	16. 0
3. 32	14. 35
7. 35	12. 30
7. 51	11. 35
8. 51	14. 0
9. 39	9. 25
10. 35	8. 20
11. 30	10. 20
12. 7	9. 30
15. 15	12. 0
21. 30	11. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 23	
h m	
11. 30	·0913
11. 45	·0926
12. 5	·0915
12. 30	·0908
18. 5	·0924
21. 45	·0912
22. 15	·0906
23. 38	·0902
Feb. 24	
0. 0	·0902
0. 30	·0900
3. 15	·0904
	***
5. 45	·0910
12. 25	·0911
12. 50	·0916
13. 34	·0910
19. 37	·0918
20. 0	·0914
21. 0	·0914
23. 0	·0899
23. 59	·0900
Feb. 25	
0. 0	·0900
6. 15	·0897
7. 34	·0904
9. 20	·0902
9. 34	·0908
10. 4	·0900
10. 23	·0899
11. 8	·0906
12. 47	·0903
14. 5	·0910
20. 15	·0916
21. 50	·0911
Feb. 26	
0. 8	·0901
3. 12	·0906
3. 34	·0902
4. 4	·0906
8. 34	·0908
8. 55	·0902
10. 6	·0896
16. 30	·0914
16. 45	·0916
23. 59	·0912

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Feb. 24	
h m	
0. 15	·01762
2. 49:	·01642
8. 5:	·01167
16. 50:	·01365
23. 32	·01240
Feb. 25	
0. 10	·01233
2. 17	·01085
4. 25	·00605
6. 47	·00580
8. 29:	·00500
10. 50	·00655
16. 7	·01430
19. 17	·01815
23. 59	·01760
Feb. 26	
0. 30	·01750
3. 0:	·01510
5. 26:	·01030
8. 53	·00780
12. 5	·00825
14. 47	·01000
19. 13	·01360
23. 59	·01575

Göttingen Mean Solar Time.	Readings of Thermometer. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 24		
h m		
1. 40	41 ·5	45 ·5
3. 40	44 ·0	46 ·5
9. 40	44 ·6	48 ·0
21. 40	43 ·2	46 ·5
Feb. 25		
1. 40	45 ·5	48 ·0
3. 40	48 ·5	51 ·0
9. 40	48 ·5	52 ·2
21. 45	43 ·3	46 ·5
Feb. 26		
1. 40	46 ·0	47 ·5
3. 40	48 ·5	48 ·5
9. 40	47 ·0	49 ·0

Göttingen Mean Solar Time.	Western Declination.
Feb. 26	
h m	° ′ ″
22. 47	22. 12. 30
23. 55	15. 30
Feb. 27	
1. 0	22. 16. 0
1. 19	17. 30
1. 31	16. 30
2. 5	17. 40
3. 33	15. 10
4. 0	16. 35
5. 0	15. 30
7. 26	19. 0
8. 58	14. 45
9. 10	17. 0
9. 20	15. 20
9. 30	16. 30
10. 7	12. 30
10. 52	11. 30
11. 30	7. 0
11. 53	13. 25
12. 15:	12. 20
12. 32	10. 0
12. 47	8. 10
14. 15	11. 40
15. 10	9. 0
16. 15	12. 45
17. 35	12. 30
17. 43	14. 0
	***
19. 27	12. 0
	***
20. 47	18. 30
	***
21. 21	16. 0
	***
22. 7	17. 45
	***
23. 6	15. 20
23. 13	17. 25
23. 30:	14. 10
23. 59	15. 50
Feb. 28	
0. 13	22. 17. 0
0. 36	14. 30
0. 45	17. 0
1. 22	13. 45
1. 58	17. 0
2. 4	14. 0
2. 19	14. 20
2. 32	17. 35
2. 35	14. 20
2. 44	14. 15
2. 48	15. 15
3. 38	12. 30
3. 52	15. 45
4. 13	13. 0
4. 35	14. 50

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 27	
h m	
0. 0	·0925
	***
0. 45	·0923
1. 0	·0912
1. 22	·0918
3. 30	·0920
4. 8	·0926
8. 0	·0916
8. 45	·0924
9. 40	·0903
11. 0	·0916
11. 20	·0914
11. 40	·0930
12. 0	·0922
12. 30	·0911
13. 35	·0922
14. 7	·0916
15. 33	·0920
17. 7	·0934
19. 15	·0935
20. 0	·0921
20. 36	·0922
21. 55	·0943
	***
23. 5	·0936
23. 20	·0918
23. 40	·0946
Feb. 28	
0. 45	·0922
2. 2	·0922
2. 9	·0913
2. 25	·0910
2. 38	·0920
2. 47	·0908
3. 38	·0904
3. 56	·0914
4. 15	·0904
4. 38	·0916
5. 0	·0906
5. 17	·0913
5. 34	·0895
6. 55	·0908
7. 50	·0908

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Feb. 27	
h m	
0. 23	·01600
4. 0	·01665
8. 57	·01580
11. 33	·01628
12. 0	·01582
14. 40	·01764
16. 0	·01751
	·01570
17. 45	·01632
20. 48	·01620
23. 59	·01558
Feb. 28	
0. 30	·01535
2. 53:	·01230
5. 3	·00524
7. 54	·00520
13. 40	·01035
	(†)

Göttingen Mean Solar Time.	Readings of Thermometer. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 27		
h m	°	°
0. 40	44 ·5	45 ·5
9. 40	43 ·5	47 ·5
21. 40	38 ·0	42 ·0
Feb. 28		
1. 40	41 ·5	44 ·5
3. 40	56 ·0	49 ·0
9. 40	47 ·4	48 ·5
21. 40	39 ·5	43 ·2

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temp. Factor.	Greenwich Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Feb. 28		Feb. 28						
h m	° ′	h m		h m		h m	°	°
4. 57	22. 13. 30	8. 30	·0890					
	***	8. 57	·0910					
7. 51	12. 25	9. 27:	·0903					
8. 33	3. 20	10. 0	·0914					
8. 53	9. 30	10. 30	·0906					
	***	10. 45	·0916					
9. 27	9. 20	11. 0	·0910					
	***	13. 38	·0916					
10. 27	11. 20	14. 7	·0932					
	***	14. 38	·0910					
13. 30	9. 35	15. 11	·0932					
13. 48	12. 15	15. 55	·0912					
13. 58	8. 30	16. 2	·0916					
14. 42	15. 0	16. 17	·0906					
15. 22	5. 0	16. 30	·0916					
	***	16. 38	·0913					
16. 28	11. 45		***					
	***	20. 35	·0926					
16. 45	10. 0	21. 45	·0913					
	***	23. 59	·0913					
17. 25	14. 0							
17. 32	11. 30							
17. 36	13. 10							
17. 40	11. 35							
18. 8	13. 20							
	***							
19. 45	10. 40							
23. 59	13. 0							
Mar. 1		Mar. 1		Mar. 1		Mar 1		
0. 7	22. 13. 30	0. 5	·0913	0. 10	·01732	1. 40	42° 0	43° 5
0. 53	14. 5	1. 0	·0918	2. 52:	·01605	3. 40	45° 0	46° 5
1. 3	15. 0	1. 30:	·0910	5. 16	·01305	9. 40	45° 0	47° 5
1. 21	13. 30	2. 0	·0915	9. 18	·00958	21. 40	41° 0	44° 0
1. 52	13. 30	2. 40	·0906	12. 13	·00827			
2. 0	15. 30	4. 50	·0902	14. 31:	·00882			
	***	5. 4	·0910	20. 25	·01362			
3. 35	13. 30		***	23. 59	·01465			
	***	7. 30	·0912					
4. 2	15. 0	7. 40	·0932					
	***	8. 0	·0918					
4. 35	12. 0		***					
	***	8. 34	·0914					
7. 0	11. 15	9. 38	·0912					
7. 20	11. 45	10. 45	·0918					
7. 42	1. 10	11. 5	·0922					
	***	12. 37	·0914					
8. 23	9. 35	15. 30	·0917					
	***	15. 40	·0914					
9. 9	12. 15	17. 8	·0924					
9. 40	10. 5	17. 30	·0921					
10. 38	10. 45	18. 34	·0928					
11. 2	8. 30	20. 0	·0920					
11. 35	10. 20	21. 38	·0916					
11. 55	8. 50	21. 52	·0912					
12. 26	8. 30	22. 15	·0917					
13. 7	8. 0	22. 55	·0910					
14. 40	10. 0	23. 30	·0906					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temp. Factor.	Greenwich Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Mar. 1								
h m	° ′	h m		h m		h m	°	°
16. 10	22. 13. 0							
	***							
17. 0	11. 30							
18. 5	13. 0							
19. 16	11. 25							
20. 7	10. 0							
	***							
21. 26	14. 0							
23. 15	16. 45							
23. 59	15. 30							
Mar. 2		Mar. 2		Mar. 2		Mar. 2		
0. 39	22. 16. 0	0. 5	·0918	0. 16	·01475	1. 40	44° 0	46° 0
2. 42	12. 30	2. 50	·0909	2. 5:	·01325	3. 40	48° 0	49° 0
	***	3. 11	·0912	5. 26	·00540	9. 40	47° 0	47° 0
6. 7	12. 0	4. 25	·0906	7. 5:	·00565	21. 40	43° 5	47° 0
6. 47	13. 20	5. 30	·0904	10. 32:	·00400			
10. 13	11. 30	8. 34	·0916	13. 43	·00488			
10. 39	10. 10	8. 45	·0911	16. 35	·00697			
11. 34	11. 40		***	19. 30:	·01035			
11. 42	10. 30	12. 47	·0916	23. 59	·01368			
11. 59	11. 0	13. 0	·0908					
12. 10	9. 10	13. 35	·0910					
12. 32	11. 0	13. 49	·0906					
12. 53	8. 50	14. 5	·0912					
	***	15. 0	·0910					
14. 5	12. 40	15. 30	·0916					
	***	15. 45	·0906					
14. 53	10. 45	16. 15	·0930					
15. 16	7. 15		***					
15. 42	17. 0	17. 12	·0913					
16. 34	6. 0		***					
	***	17. 40	·0925					
17. 2	8. 0		***					
	***	18. 14	·0914					
21. 26	14. 10		***					
21. 37	16. 5	18. 55	·0921					
21. 46	13. 30	19. 53	·0912					
	***	20. 45	·0919					
23. 44	19. 30	21. 35	·0910					
	***	21. 45	·0904					
23. 58	17. 30	22. 4	·0908					
	***	23. 45	·0897					
Mar. 3		Mar. 3		Mar. 3		Mar. 3		
0. 6	22. 15. 20	1. 5	·0900	0. 18	·01360	1. 40	47° 0	49° 0
0. 9	17. 25	2. 53	·0893		***	3. 40	50° 0	52° 0
0. 11	15. 20	3. 15:	·0902	1. 25	·01350	9. 40	49° 0	52° 0
0. 40	20. 0	3. 35	·0890	3. 20	·01070	21. 40	41° 0	45° 0
1. 11:	16. 0	4. 50	·0902	5. 14	·00545			
1. 58	17. 45		***					
3. 17	15. 30	7. 8	·0900	5. 58	·00570			
	***		***		·00556			
5. 24	10. 25	8. 0	·0914	10. 7	·00855			
	***		***	11. 15	·00842			
8. 24	22. 11. 45	9. 20	·0887	13. 18:	·00970			
9. 27	21. 52. 20	9. 45	·0908	16. 23	·01750			
10. 19	22. 7. 0	10. 17	·0912	22. 30	·01675			
				23. 35	·01715			

For the Horizontal and Vertical Forces, increased readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
Mar. 3		Mar. 3						
h m	° ′	h m		h m		h m	°	°
11. 5	22. 9. 30	10. 25	·0908					
11. 15	12. 0	16. 15	·0910					
11. 35	8. 25	16. 45	·0918					
		16. 50	·0913					
13. 20	13. 0	16. 59	·0918					
		17. 3	·0914					
14. 50	6. 25	18. 30	·0925					
		18. 35	·0922					
16. 56	14. 10		***					
		21. 50	·0916					
18. 6	10. 30	22. 50	·0914					
		23. 0	·0920					
21. 16	11. 15	23. 59	·0904					
22. 50	14. 15							
23. 13	18. 20							
23. 36	18. 30							
Mar. 4		Mar. 4		Mar. 4		Mar. 4		
0. 0	22. 18. 0	0. 4	·0902	0. 30	·01733	1. 40	45 ·0	48 ·3
0. 30	17. 55	0. 25	·0904	2. 13	·01565	3. 40	49 ·5	51 ·5
0. 40	19. 20	1. 0	·0893	6. 20	·00532	9. 40	49 ·8	52 ·0
2. 54	16. 30	1. 15	·0896		·00710	21. 40	47 ·0	50 ·0
3. 16:	12. 35	1. 26	·0906	6. 50	·00680			
3. 24:	13. 0	1. 33	·0898	9. 44	·00777			
3. 45:	11. 15		***	11. 28	·00727			
5. 37	10. 0	2. 30	·0904	16. 28:	·01210			
9. 11	22. 9. 45	3. 0	·0892	19. 33:	·01287			
10. 6	21. 51. 45	3. 25	·0894	23. 22	·01195			
10. 23	21. 53. 15	3. 50	·0906					
10. 59	22. 4. 40	4. 45	·0904					
11. 13	1. 30	5. 15	·0896					
11. 26	7. 50	7. 8	·0902					
11. 40	7. 0	8. 15	·0914					
11. 47	8. 0	8. 30	·0908					
12. 0	6. 30	9. 20	·0905					
		10. 23	·0930					
12. 56	10. 35	11. 0	·0886					
13. 30	9. 0	11. 30	·0902					
14. 8	13. 0	11. 45	·0888					
15. 35	10. 30	12. 40	·0901					
		13. 1	·0898					
21. 7	9. 25	13. 15	·0903					
22. 6	9. 30	13. 45	·0900					
22. 15	12. 0	13. 55	·0903					
22. 20	8. 50	18. 23	·0914					
22. 27	11. 0		***					
23. 59	15. 5	19. 37	·0902					
		22. 2	·0901					
		22. 5	·0905					
		22. 15	·0897					
		22. 18	·0904					
		22. 45	·0897					
		23. 59	·0891					
Mar. 5		Mar. 5		Mar. 5		Mar. 5		
0. 25	22. 13. 45	0. 4	·0891	0. 17	·01142	1. 40	51 ·0	53 ·0
1. 0	14. 50	0. 34	·0900	1. 18:	·01008	3. 40	53 ·5	55 ·0

Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
Mar. 5		Mar. 5		Mar. 5		Mar 5		
h m	° ′	h m		h m		h m	°	°
1. 37	22. 13. 25	4. 5	·0898	2. 58	·00650	9. 40	55 ·0	57 ·0
3. 20	11. 15	4. 45	·0901		·00702	23. 16	52 ·4	54 ·0
3. 30	12. 35	5. 14	·0896	4. 20	·00731			
4. 5	10. 25	7. 30	·0894	10. 18	·00674			
5. 26	9. 20	7. 37	·0891	11. 17	·00700			
	***	8. 4	·0901	12. 28	·00799			
7. 24	10. 30	9. 56	·0896	15. 55	·00937			
7. 45	6. 30	10. 14	·0907	20. 21	·01262			
8. 11	10. 0	10. 56	·0898	23. 35	·01418			
	***	11. 10	·0902					
8. 20	9. 0	11. 30	·0907					
9. 5	10. 30	12. 20	·0900					
9. 43	8. 50	13. 0:	·0908					
9. 54	10. 5	13. 30	·0902					
10. 35:	6. 15	15. 45	·0901					
11. 8	11. 30	16. 6	·0896					
11. 43	11. 45	17. 0	·0904					
12. 6	10. 30	19. 40	·0907					
12. 20	10. 25	20. 30	·0904					
12. 43	9. 45	21. 15	·0890					
12. 56	11. 15	21. 30:	·0888					
13. 28	9. 30	21. 40	·0890					
	***	22. 0	·0896					
14. 51	11. 0	23. 5	·0902					
	***	23. 59	·0896					
15. 41:	9. 30							
16. 4:	13. 0							
16. 17	12. 0							
16. 28	13. 0							
	***							
17. 7	11. 20							
	***							
20. 20	8. 30							
	***							
22. 16	14. 0							
22. 21	12. 30							
23. 28	14. 20							
Mar. 6		Mar. 6		Mar 6		Mar. 6		
0. 7	22. 13. 0	0. 4	·0901	1. 0	·01462	11. 36	55 ·0	58 ·0
2 21	9. 30	1. 0	·0904	3. 53	·01420	21. 40	53 ·5	56 ·0
4. 0	9. 0	2. 0	·0898	9. 18	·00932			
6. 12	10. 45	7. 15	·0904	11. 15	·00850			
10. 15	12. 0	11. 2:	·0897	14. 27:	·00937			
12. 1	11. 20	11. 40	·0904	18. 57	·01227			
12. 23	8. 45	12. 3	·0902	20. 52	·01217			
12. 58	9. 30	12. 44	·0928	23. 48	·01267			
13. 7	6. 0	12. 57	·0895					
13. 17	9. 25	13. 14	·0902					
14. 11	9. 40	15. 45	·0888					
14. 37:	8. 40	16. 55	·0892					
15. 0:	10. 40	17. 3	·0888					
	***	17. 35	·0916					
16. 3	9. 25	17. 57	·0890					
	***	18. 46	·0898					
16. 36	11. 20	19. 6	·0893					
	***	19. 35	·0904					
17. 28	10. 30	20. 21	·0886					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 6		Mar. 6						
h m	° ′ ″	h m		h m		h m	°	
17. 32	22. 12. 0	20. 40	·0910					
18. 8	0. 0	21. 4	·0900					
18. 31	12. 0	21. 23:	·0904					
19. 29	14. 40	21. 42	·0898					
	***	22. 35	·0902					
19. 58	9. 15	22. 50	·0896					
	***	23. 5:	·0903					
20. 44	18. 30	23. 23:	·0898					
21. 3	16. 35	23. 59	·0900					
22. 45	17. 50							
23. 3	16. 50							
23. 18	18. 30							
23. 42	16. 30							
23. 52	18. 0							
Mar. 7		Mar. 7		Mar. 7		Mar. 7		
0. 10	22. 13. 0	0. 5	·0897	0. 12	·01265	1. 40	56 ·0	57 ·2
	***	0. 20	·0902	2. 48:	·01155	3. 40	58 ·0	59 ·0
1. 39	15. 0	2. 23	·0899		***	9. 40	58 ·0	59 ·5
2. 35	12. 0	2. 40	·0900	5. 58	·00847	21. 40	51 ·0	53 ·0
3. 29	11. 50	2. 56	·0910		***			
4. 40	15. 0	3. 30	·0883	7. 0	·00835			
4. 47	15. 30	3. 40	·0890	7. 12	·00888			
4. 50	14. 20	4. 5	·0886	7. 17	·00805			
5. 3	15. 25		***	7. 20	·00857			
5. 11	14. 25	5. 20	·0902		***			
5. 19	15. 40	5. 23	·0888	9. 23	·00887			
5. 21	13. 40	5. 30	·0902		***			
5. 31	15. 35	5. 35	·0899	10. 50	·00762			
5. 44	13. 40	6. 0	·0910	12. 58	·00825			
6. 15	15. 20	6. 7	·0906	13. 40	·00710			
6. 22	10. 30	6. 12	·0929		***			
6. 29	22. 13. 20	6. 20	·0916	16. 10	·01003			
	***	6. 27	·0936	20. 27	·01700			
6. 57	21. 50. 30	6. 44	·0906	22. 15	·01872			
	***		***	23. 59	·01912			
7. 14	55. 30	7. 5	·0948					
7. 15	21. 53. 0	7. 34	·0886					
7. 18	22. 2. 30		***					
7. 19	1. 0	8. 34	·0892					
7. 31	8. 0	8. 46	·0880					
	***	9. 32	·0900					
7. 57	3. 50	9. 45	·0880					
	***	9. 50	·0896					
8. 17	8. 40	10. 13	·0888					
	***	10. 16	·0886					
8. 32	4. 0	10. 56	·0873					
8. 47	4. 20	11. 16	·0888					
9. 30	22. 11. 50	11. 35	·0893					
9. 56	21. 56. 0	12. 0	·0882					
10. 5	59. 30	12. 35	·0884					
10. 16	54. 0	12. 55	·0924					
10. 18	55. 0	13. 14	·0892					
10. 29	21. 50. 20	13. 27	·0885					
10. 45	22. 5. 0	13. 45	·0920					
10. 48	4. 30	14. 8	·0902					
10. 55	6. 30	14. 23	·0906					
11. 8	3. 55	14. 38	·0896					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 7		Mar. 7						
h m	° ′ ″	h m		h m		h m	°	
11. 28	22. 6. 30	14. 53	·0894					
11. 42	5. 15	16. 5	·0912					
	***	16. 15	·0923					
12. 57	8. 30		***					
13. 17	17. 45	16. 34	·0924					
13. 30	16. 40		***					
13. 58:	8. 0	17. 30	·0895					
14. 12	11. 0	18. 15	·0901					
14. 23	7. 45	18. 23	·0896					
14. 30	22. 8. 25	18. 32	·0908					
15. 28	21. 47. 0		***					
16. 8	22. 9. 30	18. 50	·0906					
16. 30	8. 0		***					
16. 36	9. 45	19. 15	·0886					
16. 45	6. 30	19. 23	·0900					
16. 51	8. 50	19. 34	·0883					
	***	19. 46	·0877					
18. 8	8. 25	19. 55	·0886					
18. 20	4. 0	20. 32	·0892					
	***	20. 55	·0884					
18. 42	7. 30	21. 0	·0885					
18. 50	11. 0	21. 17	·0896					
19. 10	7. 0		***					
	***	21. 35	·0892					
19. 43	12. 25	21. 45	·0888					
	***		***					
20. 13	11. 30	22. 15	·0886					
20. 25	14. 0	22. 30	·0876					
	***	23. 0	·0884					
21. 15	11. 25	23. 15	·0892					
21. 20	15. 0	23. 30	·0883					
21. 30	11. 35	23. 45	·0888					
	***	23. 46	·0878					
22. 27	12. 0	23. 59	·0882					
	***							
22. 50	12. 25							
	***							
23. 18	12. 0							
	***							
23. 27	13. 30							
23. 30	17. 0							
23. 32	14. 30							
23. 43	18. 30							
	***							
23. 50	16. 15							
23. 59	17. 35							
Mar. 8		Mar. 8		Mar. 8		Mar. 8		
1. 0	22. 21. 0	0. 5	·0888	1. 27	·01930	1. 40	54 ·0	56 ·0
1. 14	13. 40	0. 20	·0880		***	3. 40	55 ·0	57 ·0
	***	0. 30	·0858	3. 56	·01712	9. 40	55 ·5	57 ·0
1. 32	17. 25	1. 34	·0896	4. 17	·01730	21. 40	47 ·0	53 ·0
	***	2. 15	·0890		***			
1. 53	16. 0	2. 46	·0908	6. 28	·01467			
	***	3. 4	·0892		***			
2. 25	17. 0	3. 25	·0916	7. 17	·01420			
	***	4. 15	·0904		***			
2. 52	20. 30	6. 9	·0917	8. 33	·01242			

For the Horizontal and Vertical Forces, increased readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 8		Mar. 8		Mar. 8				
h m	° ′ ″	h m		h m		h m		
3. 3	22. 18. 15	6. 35	·0912		***			
	***	6. 50	·0918	9. 47	·01280			
3. 22	21. 50	7. 16	·0911	10. 28	·01235			
3. 29	21. 25		***	11. 50	·01278			
3. 37	24. 0	8. 30	·0904	12. 17	·01180			
	***	8. 34	·0914	13. 15	·01090			
4. 8	10. 30	8. 40	·0906	14. 2	·01170			
4. 23	17. 25	8. 45	·0913	14. 24	·01162			
	***		***		***			
4. 37	14. 30	9. 23	·0910	19. 44	·01900			
	***	9. 34	·0892	23. 54	·01855			
4. 55	19. 0	10. 20	·0936		·01750			
5. 4	15. 20	10. 30	·0936					
5. 11	18. 30	10. 35	·0923					
5. 17	17. 20		***					
5. 23	19. 0	11. 16	·0902					
	***	11. 30	·0906					
6. 6	13. 40	11. 41	·0898					
6. 17	13. 40	12. 5	·0931					
6. 33	8. 30	12. 24	·0914					
7. 2	22. 9. 25	12. 55	·0954					
7. 17	21. 46. 30	13. 14	·0918					
7. 31	59. 0	13. 40	·0902					
7. 36	21. 53. 40		***					
7. 55	22. 3. 30	14. 23	·0908					
8. 5	22. 3. 0	14. 40	·0892					
8. 20	21. 55. 20	14. 50	·0900					
8. 27	59. 35	15. 0	·0892					
8. 38	53. 10	15. 4	·0900					
8. 47	56. 25	15. 23	·0886					
9. 12	21. 49. 30	15. 38	·0906					
9. 35	22. 4. 25	15. 45	·0891					
9. 55	22. 3. 30	16. 35	·0904					
10. 17	21. 54. 30		***					
10. 36	22. 4. 0	17. 58	·0896					
10. 43	2. 0	18. 5	·0902					
	***	18. 24	·0900					
11. 12	22. 2. 10	18. 34	·0912					
11. 25	21. 59. 20	19. 4	·0904					
12. 2	22. 14. 40	19. 15	·0956					
12. 8	12. 0	19. 25	·0942					
12. 20	15. 30	19. 38	·0950					
12. 40	5. 0	19. 53	·0926					
13. 7	17. 25	20. 2	·0926					
13. 58	7. 30	20. 15	·0938					
14. 31	51. 30	20. 30	·0898					
15. 2	8. 30	20. 55	·0907					
15. 17	5. 25	21. 15	·0906					
15. 31	7. 10	21. 37	·0886					
15. 50	3. 0	22. 0	·0886					
16. 32	10. 40	22. 8	·0896					
16. 50	6. 0		***					
	***	22. 45	·0894					
17. 16	10. 0		***					
17. 27	7. 0	23. 17	·0906					
	***	23. 28	·0905					
17. 42	8. 30	23. 40	·0896					
	***	23. 59	·0898					
17. 52	6. 25							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 8								
	° ′ ″	h m		h m		h m		
18. 10	22. 6. 30							
	***							
18. 17	8. 45							
19. 18	11. 0							
19. 30	8. 45							
	***							
19. 51	12. 0							
19. 53	8. 0							
20. 0	12. 0							
20. 4	8. 50							
20. 7	12. 0							
20. 9	9. 35							
	***							
20. 36	12. 20							
20. 38	9. 40							
	***							
21. 20	14. 0							
21. 44	11. 30							
21. 59	13. 35							
	***							
22. 17	11. 30							
22. 28	17. 30							
	***							
23. 0	12. 0							
	***							
23. 30	19. 0							
23. 59	16. 30							
Mar. 9		Mar. 9		Mar. 9		Mar. 9		
0.	22. 20. 0	0. 15	·0906	1. 8	·01730	1. 40	49 ·0	54 ·0
	***	1. 0	·0902	2. 17	·01742	3. 40	53 ·0	56 ·0
2. 1	12. 50	1. 28	·0904	3. 37	·01617	9. 40	54 ·0	56. 0
	***	1. 32	·0897	5. 22	·01287	21. 40	48 ·5	53 ·0
3. 6	23. 15	1. 50	·0908	5. 36	·01270			
3. 22	15. 10	1. 55	·0900	8. 28	·00755			
3. 30	16. 0	2. 15	·0911	10. 2	·00715			
3. 43	9. 50		***	10. 35	·00600			
4. 0	14. 45	3. 0	·0905	15. 38	·01018			
4. 45	14. 25	3. 8	·0984	18. 23	·01352			
4. 52	16. 30	3. 15	·0904	21. 27	·01506			
5. 5	12. 45	3. 17	·0897	23. 59	·01612			
	***	3. 28	·0908					
5. 25	22. 14. 10	3. 45	·0902					
5. 35	21. 50. 10	3. 50	·0912					
6. 0	22. 5. 30	3. 53	·0906					
6. 15	9. 25	4. 0	·0916					
6. 19	8. 30	4. 3	·0905					
6. 29	10. 5	4. 16	·0897					
6. 38	7. 50	4. 30	·0906					
6. 48	12. 10	4. 38	·0896					
6. 55	11. 0	4. 50	·0910					
7. 6	13. 30	5. 0	·0896					
7. 11	11. 25	5. 4	·0902					
7. 20	12. 30	5. 27	·0886					
7. 29	7. 30	5. 45	·0942					
7. 39	5. 0	6. 4	·0907					
	***	6. 15	·0903					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; atttached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temp. and Log.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temp. and Log.	Göttingen Mean Solar Time.	Readings of Thermometers on H. F. Magnet.	on V. F. Magnet.
Mar. 9 h m	° ′	Mar. 9 h m		h m		°	°	
8. 16	22. 9. 0	6. 23	·0908					
8. 24	6. 0	6. 34	·0896					
8. 40	9. 50	6. 45	·0902					
9. 32	11. 45	6. 50	·0898					
9. 55	5. 30	7. 5	·0902					
10. 2	10. 30	7. 14	·0878					
10. 30	15. 25	7. 27	·0920					
10. 46	6. 40		***					
11. 2	14. 0	8. 8	·0924					
11. 14	11. 15	8. 24	·0912					
11. 25	12. 30	8. 30	·0920					
	***	8. 45	·0911					
13. 1	6. 45	9. 48	·0908					
13. 23	16. 0	10. 2	·0946					
14. 1	12. 45	10. 20	·0946					
14. 13	14. 0	10. 40	·0916					
15. 17:	7. 0	10. 50	·0921					
15. 47	15. 0	11. 3	·0910					
	***	11. 16	·0917					
16. 21	9. 55	11. 40	·0906					
16. 31	11. 30	12. 16	·0906					
16. 41	9. 25	12. 30	·0914					
17. 25	10. 35	12. 45	·0903					
17. 54	8. 20	12. 55	·0906					
18. 28	8. 30	13. 14	·0899					
	***	13. 30	·0902					
20. 30	20. 0	13. 50	·0914					
	***		***					
20. 43	20. 0	15. 38	·0920					
20. 47	17. 20	15. 45	·0908					
	***	16. 20	·0914					
21. 2	19. 0	16. 25	·0920					
21. 29:	15. 0	16. 35:	·0912					
22. 7	17. 0	16. 45	·0918					
	***	18. 55	·0912					
22. 46	14. 0	19. 15	·0896					
	***	19. 35	·0892					
23. 25	18. 0	20. 8	·0906					
	***		***					
23. 58	18. 0	21. 5	·0902					
	***	22. 25	·0904					
		22. 50	·0890					
			***					
		23. 59	·0886					
Mar. 10		Mar. 10		Mar. 10		Mar. 10		
0. 36	22. 17. 0	0. 29	·0894	0. 46	·01578	1. 40	53 ·0 56 ·0	
	***	0. 35	·0894	3. 48	·01136	3. 40	56 ·0 58 ·0	
1. 32	18. 30	2. 34	·0910	5. 5.	·00880	9. 40	57 ·0 58 ·0	
1. 59	15. 0	3. 0	·0894		·00962	21. 40	48 ·0 49 ·0	
2. 33	15. 25	3. 23	·0908	6. 20	·00868			
2. 45	12. 30	3. 30	·0902	6. 28	·00902			
	***	3. 55	·0906	10. 5	·00742			
4. 4	14. 30	4. 15	·0890	11. 19	·00937			
4. 52	4. 45	4. 23	·0896		***			
5. 25	11. 0	4. 36	·0882	12. 27	·00942			
6. 0	22. 12. 30	5. 8	·0906	14. 20	·01122			
6. 25	21. 55. 30	5. 35	·0912	18. 30	·01855			
	***	5. 50	·0904	23. 59	·01886			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temp. and Log.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temp. and Log.	Göttingen Mean Solar Time.	Readings of Thermometers on H. F. Magnet.	on V. F. Magnet.
Mar. 10 h m	° ′	Mar. 10 h m		h m		h m	°	
7. 55	22. 8. 0	6. 0	·0910					
8. 10	7. 30	6. 20	·0886					
8. 20	3. 20	6. 34	·0937					
8. 47	12. 30	7. 8	·0913					
9. 5	4. 0	8. 0	·0898					
9. 6	6. 10	8. 16	·0902					
9. 22	0. 30	8. 29	0918					
9. 40	16. 0	8. 38	·0916					
9. 55	14. 30	8. 53	·0900					
10. 7	17. 40	9. 8	·0914					
10. 9	4. 0	9. 15	·0912					
10. 35	7. 5	9. 30	·0943					
10. 42	5. 45	10. 15	·0897					
10 53	5. 30	10. 30	·0915					
11. 5:	8. 25	11. 12	·0888					
11. 18	4. 25	11. 20	·0902					
11. 45	15. 30	11. 35	·0918					
11. 55	5. 20	11. 53	·0896					
12. 11	12. 0	12. 2	·0920					
12. 40	7. 0	12. 23	·0906					
	***	12. 45	·0910					
13. 23	9. 0		***					
13. 35	13. 0	13. 15	·0900					
13. 53	14. 30	13. 45	·0913					
14. 13	21. 0	14. 20	·0900					
14. 54	11. 0	15. 30	·0926					
15. 42	4. 30	16. 45	·0901					
16. 24	6. 0	17. 24	·0917					
16. 57	11. 30		***					
	***	19. 0	·0914					
17. 44	7. 30	19. 15	·0906					
	***	20. 14	·0906					
17. 56	10. 20	20. 35:	·0912					
	***	21. 8	·0902					
18. 20	8. 0	21. 24	·0906					
	***	23. 14	·0886					
19. 55	10. 35	23. 46	·0886					
	***							
20. 29	13. 0							
20. 58	11. 15							
21. 2	12. 30							
	***							
21. 17	9. 20							
	***							
22. 8	13. 0							
	***							
22. 58	12. 0							
	***							
23. 22	14. 50							
	***							
23. 50	14. 45							
Mar. 11		Mar. 11		Mar. 11		Mar. 11		
0. 7	22. 17. 30	0. 5	·0891	0. 46	·00815	1. 40	51 ·7 53 ·8	
	***	1. 20	·0888		***	3. 40	55 ·5 57 ·7	
1. 42	16. 40	1. 33	·0891	3. 8	·01520	9. 40	56 ·2 58 ·2	
2. 28	21. 10	2. 20	·0880	5. 46	·00918	21. 40	44 ·0 52 ·0	
2. 35	25. 40	4. 30	·0893	7. 0	·00902			

For the Horizontal and Vertical Forces, increased readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 11		Mar. 11		Mar. 11				
h m	° ′ ″	h m		h m		h m	°	°
2. 44	22. 16. 30	4. 46	·0905	7. 43	·00938			
2. 48	13. 45		***	9. 37	·00828			
3. 2	10. 0	5. 12	·0906		***			
3. 21	10. 25	5. 30	·0893	10. 40	·00733			
	***	5. 44	·0920	11. 30	·00760			
3. 33	13. 45	6. 8	·0913		***			
3. 40	11. 50	6. 15	·0904	13. 10	·00822			
4. 35	17. 0	6. 23	·0906	13. 15	·00950			
4. 58	6. 30	6. 33	·0900	14. 12	·01002			
5. 13:	11. 45	7. 0	·0906	17. 39	·01540			
5. 22:	10. 30	7. 15	·0891	20. 40	·01854			
5. 35:	12. 10	7. 23	·0892	22. 30	·01818			
5. 54:	9. 45	7. 36	·0914	23. 59	·01830			
6. 15	15. 0	7. 54	·0893					
6. 17	13. 0	8. 15	·0900					
6. 32	12. 0	8. 25	·0896					
6. 45	0. 0	8. 45	·0908					
6. 53	22. 0. 15	9. 15	·0880					
6. 59	21. 59. 0	9. 45	·0926					
7. 16	22. 7. 0	9. 56	·0906					
7. 28	4. 0		***					
7. 42	5. 10	10. 22	·0894					
7. 47	4. 0	10. 30	·0904					
7. 58	6. 45	10. 45	·0896					
	***	11. 45	·0896					
8. 11:	4. 45	11. 48	·0933					
8. 51	9. 30	12. 2	·0916					
9. 6	22. 8. 30	12. 6	·0934					
9. 16	21. 56. 20	12. 30	·0883					
9. 28	22. 4. 0	12. 54	·0926					
9. 35	0. 30	13. 8	·0914					
9. 46	11. 0	13. 28	·0926					
10. 13	1. 0	13. 44	·0885					
10. 21	22. 5. 0	13. 57	·0883					
10. 42:	21. 56. 25	14. 4	·0873					
10. 59	22. 1. 45	14. 16	·0876					
11. 22	21. 52. 0	14. 30	·0866					
11. 42	21. 58. 30	15. 16	·0906					
11. 55	22. 11. 0		***					
12. 0	9. 0	16. 4	·0900					
12. 12	10. 30	16. 45	·0884					
12. 23	7. 0	17. 14	·0885					
12. 52	13. 25	17. 30	·0898					
	***		***					
13. 10	22. 12. 30	18. 40	·0911					
13. 47	21. 56. 45	18. 57	·0900					
14. 28:	22. 21. 10	19. 35	·0904					
15. 22	9. 35	20. 12	·0890					
15. 43	11. 25	21. 0	·0911					
16. 2	8. 0		***					
16. 15	9. 30	21. 40	·0904					
16. 44	9. 0	21. 45	·0913					
16. 58	10. 25	21. 55	·0902					
17. 11	9. 15	22. 0	·0908					
17. 44	11. 0	22. 37	·0884					
17. 54	10. 30	23. 0	·0898					
18. 32	13. 25		***					
18. 53	9. 35	23. 35	·0893					
	***	23. 59	·0877					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 11								
h m	° ′ ″	h m		h m		h m	°	°
20. 15	22. 12. 30							
20. 19	9. 40							
	***							
20. 40	13. 30							
	***							
21. 13	11. 15							
21. 26	13. 25							
21. 35	12. 0							
21. 45	18. 20							
21. 50	15. 0							
21. 57	16. 0							
	***							
22. 28	14. 25							
	***							
22. 42	18. 0							
	***							
23. 22	19. 0							
	***							
Mar. 12		Mar. 12		Mar. 12		Mar. 12		
0. 3	22. 16. 15	0. 0	·0876	0. 27	·01883	1. 40	52 ·5	55 ·0
	**	1. 5	·0894	1. 19	·01858	3. 40	56 ·0	59 ·0
0. 26	17. 30	2. 32	·0898	3. 33	·01475	9. 40	57 ·0	60 ·0
	***	2. 54	·0878	4. 48	·01073	23. 5	49 ·0	53 ·0
0. 58	15. 30	3. 31	·0899	6. 16	·01060			
	***	4. 0:	·0880	8. 13	·00940			
1. 20	17. 20	4. 19	·0896		***			
	***	4. 27	·0892	9. 43	·01055			
2. 4	16. 0	4. 40	·0912	9. 53	·01093			
	***	4. 50	·0892	10. 24	·01078			
2. 14	19. 45		***	13. 48	·01427			
	***	5. 28	·0902	16. 51	·01883			
2. 53	20. 35	5. 47	·0883	18. 5	·01805			
	***	6. 4	·0916	20. 35:	·01882			
3. 15	16. 50		***	23. 59	·01898			
	***	6. 45	·0905					
3. 30	14. 0	6. 57	·0888					
3. 38	11. 40		***					
3. 43	12. 0	8. 9	·0888					
3. 55	8. 30	8. 15	·0896					
	***	8. 29	·0896					
4. 40	10. 30	8. 36	·0921					
4. 46	13. 10	8. 46	·0885					
4. 55	10. 30	9. 4	·0910					
5. 12	12. 0	9. 12	·0890					
5. 37	22. 11. 30		***					
5. 58	21. 54. 20	9. 31	·0914					
6. 13	22. 2. 15	9. 46	·0898					
6. 37	2. 35	10. 2:	·0934					
7. 13	9. 25	10. 30	·0882					
	***	10. 38	·0900					
7. 52	7. 25	10. 45	·0894					
	***	11. 0	·0898					
8. 10	9. 20	11. 23	·0896					
	***	11. 31	·0902					
8. 33	4. 15	12. 3	·0882					
8. 40	12. 25	12. 40:	·0897					
8. 53	2. 0	13. 0	·0893					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	Readings of Thermometers. On V. F. Magnet.
Mar. 12		Mar. 12						
h m	° ′ ″	h m		h m		h m	°	°
9. 8	22. 10. 30	13. 26	·0908					
9. 30	4. 30	13. 40	·0900					
9. 36	22. 6. 30	14. 40	·0907					
9. 52	21. 54. 0	14. 55	·0912					
10. 11	22. 2. 0	16. 15	·0892					
10. 35	21. 49. 0		***					
10. 48	21. 52. 0	17. 45:	·0930					
11. 0	22. 1. 0	18. 20	·0910					
11. 5	0. 0	19. 4	·0904					
11. 14	2. 30	19. 14	·0912					
11. 24	11. 0		***					
11. 45	6. 40	20. 30	·0894					
11. 53	6. 30	21. 55:	·0858					
12. 13	12. 0	22. 17	·0864					
12. 28:	11. 0	22. 45	·0886					
12. 50	13. 25	23. 59	·0888					
13. 5	10. 30							
13. 22	11. 5							
13. 34	13. 35							
	***							
14. 15	13. 0							
	***							
15. 22	6. 30							
	***							
16. 58	16. 0							
17. 10	15. 0							
17. 42	18. 0							
	***							
18. 18	9. 0							
	***							
19. 3	10. 30							
19. 7	8. 50							
19. 17	11. 40							
19. 25	11. 5							
19. 32	12. 25							
	***							
20. 0	7. 50							
20. 6	12. 0							
20. 10	10. 30							
20. 58	12. 15							
21. 5	9. 50							
21. 13	13. 0							
	***							
21. 32	13. 25							
	***							
21. 41	15. 30							
	***							
22. 5	14. 30							
	***							
22. 17	18. 0							
22. 25	15. 25							
22. 36	17. 30							
23. 12	16. 50							
Mar. 13		Mar. 13		Mar. 13		Mar. 13		
0. 3	22. 19. 0	0. 20	·0884	0. 30	·01898	9. 10	57	·061 ·0
0. 21	18. 5	1. 9	·0893		***	21. 45	54	·057 ·0
0. 38	20. 50	1. 35	·0896	2. 29	·01882			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	Readings of Thermometers. On V. F. Magnet.
Mar. 13		Mar. 13		Mar. 13				
h m	° ′ ″					h m	°	°
0. 51	22. 20. 0	2. 0	·0884	4. 17	·01675			
1. 3	21. 45	2. 40	·0898	8. 0	·01[illegible]			
1. 16	18. 25	3. 4:	·0884	9. 25	·01[illegible]45			
1. 22	19. 20	3. 14	·0894	10. 13	·01[illegible]			
1. 32	17. 20	3. 23	·0888	14. 15:	·01[illegible]			
1. 43	20. 0	3. 30	·0898	19. 15:	·01210			
1. 48	18. 0	3. 44	·0891	23. 59	·01452			
	***	3. 50	·0898					
2. 38	21. 45	4. 7	·0883					
2. 47	20. 0	4. 23	·0898					
3. 2	20. 50		***					
3. 13	13. 35	5. 50	·0898					
3. 23	11. 0	6. 0	·0908					
	***	6. 8	·0904					
3. 35	14. 35	6. 30	·0915					
3. 43	16. 10	6. 45	·0904					
	***	7. 11	·0900					
4. 4	13. 0	7. 35	·0900					
4. 16	14. 0	7. 50	·0910					
5. 28	14. 0	8. 20	·0904					
5. 46	12. 0	8. 37	·0918					
6. 0	6. 45	9. 8	·0898					
6. 8	6. 0	9. 34	·0926					
6. 9	3. 0	10. 15	·0900					
6. 42	9. 0	11. 4	·0898					
6. 50	8. 25	11. 28	·0927					
7. 4	10. 0	12. 30	·0898					
7. 32	8. 25	12. 45	·0902					
7. 37	9. 0	13. 0	·0898					
7. 42	7. 50	13. 20	·0904					
7. 48	9. 0	15. 5	·0900					
7. 52	7. 35	19. 0	·0906					
8. 16	7. 0	22. 15	·0892					
8. 30	2. 30							
8. 54:	8. 0							
9. 26	3. 0							
10. 0	12. 10							
10. 37	5. 15							
10. 52	7. 30							
11. 0	7. 0							
11. 8	9. 30							
11. 17	5. 0							
11. 50:	13. 30							
12. 33	7. 30							
12. 52	11. 10							
	***							
14. 6	8. 30							
	***							
15. 21	11. 30							
15. 47	9. 30							
19. 17	11. 0							
	***							
21. 10	9. 45							
	***							
22. 47	12. 25							
	***							
23. 30	16. 30							
23. 45	15. 30							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.13								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 16. 30							
Mar.14		Mar.14		Mar.14		Mar.14		
0. 15	22. 16. 50	0. 35	·0880	0. 36	·01500	1. 40	54 ·5	56 ·0
0. 46	19. 0	2. 16	·0893	4. 30	·01734	3. 40	54 ·5	56 ·5
1. 5	17. 45	2. 26	·0891	8. 51	·01900	9. 40	53 ·0	55 ·0
1. 39	19. 15	2. 55	·0896	13. 44	·01898	21. 40	48 ·0	50 ·0
2. 35	17. 0	4. 15	·0896	15. 51	{ ·01736			
3. 38	17. 0	5. 27:	·0905		{ ·01555			
4. 30	14. 15	6. 0	·0901	18. 51:	·01720			
7. 22	11. 5	7. 6	·0900	23. 59	·01560			
10. 6	10. 40	7. 32	·0904					
10. 50	9. 30	9. 56	·0905					
11. 13	5. 40	10. 8	·0912					
12. 4	6. 45	11. 8	·0912					
12. 25:	9. 30	11. 20	·0916					
13. 5	9. 25	11. 47	·0907					
13. 24	11. 0	13. 0	·0904					
14. 21	7. 40	13. 16	·0910					
	***	13. 27	·0906					
15. 7	20. 50	14. 0:	·0912					
15. 47	7. 45	14. 45	·0893					
16. 40	4. 30	15. 30	·0912					
17. 36	12. 5	16. 34	·0919					
18. 46	10. 0	17. 9:	·0910					
19. 43	10. 40	17. 45	·0920					
	***	20. 19	·0922					
20. 50	8. 20	22. 30	·0906					
21. 48	10. 5	23. 59	·0898					
22. 49	10. 0							
23. 59.	15. 0							
Mar.15		Mar.15		Mar.15		Mar.15		
0. 8	22. 14. 30	0. 15	·0890	0. 15	·01540	1. 40	51 ·0	53 ·5
1. 37	17. 25	1. 34	·0894	2. 32:	·01250	3. 40	53 ·5	54 ·0
2. 12	19. 30	2. 3	·0900	4. 41	·00708	9. 40	55 ·0	57 ·5
2. 41	17. 0	2. 16	·0900	7. 3	·00783	21. 40	48 ·5	52 ·5
3. 47	15. 30	2. 40	·0893	9. 43:	·00738			
4. 30	15. 40	3. 16	·0896	13. 50:	·00972			
6. 5	11. 40	4. 0	·0908	17. 53	·01433			
6. 34:	3. 30	4. 45	·0900	22. 17	·01752			
7. 9	10. 25		***	23. 59	·01746			
8. 46	11. 35	5. 57	·0902					
9. 5	8. 50	6. 18	·0884					
9. 14	10. 15	6. 50	·0906					
9. 26	3. 15	7. 30:	·0896					
9. 36	3. 50	8. 15	·0904					
9. 48	2. 15		***					
10. 16	3. 10	9. 20	·0902					
10. 38	7. 15	9. 32	·0922					
10. 45	6. 30	9. 55	·0911					
11. 2	9. 10	10. 5	·0913					
11. 30:	6. 0	10. 41	·0894					
12. 0:	8. 30	11. 36	·0903					
12. 30	5. 50	11. 40	·0896					
13. 26	5. 25	11. 55	·0902					
15. 22	11. 30	12. 15	·0902					
16. 31	11. 30	12. 35	·0896					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.15		Mar.15						
h m	° ′ ″	h m		h m		h m	°	°
17. 21	22. 9. 30	13. 30	·0901					
19. 0	12. 25	13. 40	·0898					
	***	13. 45	·0908					
20. 55	9. 0	21. 5	·0912					
	***	21. 30	·0910					
22. 50	10. 0	22. 0	·0914					
	***		***					
23. 59	13. 40	23. 20	·0900					
			***					
		23. 59	·0900					
Mar.16		Mar.16		Mar.16		Mar.16		
0. 10	22. 14. 0	0. 8	·0898	0. 30	·01758	1. 40	50 ·0	53 ·0
1. 15	17. 20	0. 30	·0896	3. 12:	·01668	3. 40	53 ·0	54 ·5
3. 52	16. 0	5. 15	·0904	8. 18:	·01418	9. 40	51 ·5	54 ·0
6. 48	10. 25	5. 30	·0901	14. 9	·01762	21. 40	43 ·5	47 ·5
7. 8	10. 30	6. 0	·0906	21. 55	·01680			
7. 24	9. 25	6. 20:	·0902		(†)			
7. 52	10. 0	7. 25	·0906					
8. 17:	7. 50	8. 10	·0902					
9. 20	11. 30	8. 35	·0911					
19. 26	11. 0	10. 15	·0912					
20. 40	9. 0	15. 50	·0920					
21. 55	9. 30	20. 30	·0928					
		21. 54	·0925					
		23. 59	·0916					
Mar.17		Mar.17		Mar.17		Mar.17		
0. 18	22. 15. 30	0. 5	·0917	0. 15	·01663	1. 40	45 ·0	49 ·0
2. 11	18. 0	1. 37	·0916	2. 5	·01685	3. 40	46 ·0	48 ·5
2. 40	17. 20	2. 10	·0924		***	9. 40	46 ·0	48 ·0
2. 50	18. 30	2. 38	·0921	5. 41:	·01575	21. 40	39 ·5	42 ·7
3. 6	18. 0	2. 50	·0929		***			
3. 26	19. 50	3. 4	·0925	8. 8	·01687			
3. 56	17. 5	3. 23	·0934		***			
4. 22	19. 0		***	8. 38	·01670			
5. 15	19. 0	3. 40	·0924	9. 17	·01530			
5. 47	10. 30	4. 33	·0936	13. 2	·01735			
6. 0	12. 5	4. 44	·0930	15. 29	{ ·01668			
6. 4	11. 10		***		{ ·01545			
6. 39	14. 0	5. 4	·0944	16. 22	·01623			
6. 58	17. 35	5. 8	·0932	19. 43:	·01620			
7. 16	16. 0	5. 24	·0926	22. 13	·01548			
7. 47	21. 30	5. 30	·0928	23. 59	·01500			
8. 1	8. 40	5. 34	·0922					
8. 10	22. 8. 0	5. 50	·0937					
8. 28	21. 43. 10	6. 1	·0921					
8. 47	22. 10. 0	6. 11:	·0926					
8. 53	4. 55	6. 20	·0918					
9. 4	13. 45	6. 27	·0920					
9. 14	22. 2. 0	7. 0	·0908					
9. 30	21. 58. 40	7. 18	·0904					
9. 40	21. 59. 0		***					
10. 13	22. 4. 0	7. 45:	·0916					
10. 20	3. 30	8. 1	·0896					
	***	8. 15	·0916					
11. 2	6. 10	8. 20	·0916					
	***	8. 28	·0904					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Mar.17		Mar.17						
h m	° ′ ″	h m		h m		h m	°	
11.48	22. 1.30	8.40	·0959					
13.14	12.25	8.55	·0920					
16.45	11.35	9. 0	·0934					
17.47	10.30	9. 8	·0915					
18. 0	12.10	9.38	·0894					
18. 5	11.15	10. 2	·0904					
18.40	14. 0	10.11	·0900					
18.58	17.35	10.24	·0910					
20.28:	8.45	12.24	·0912					
	***	16. 4	·0922					
22.45	13.30	18. 0	·0934					
22.51	12. 0	19. 7	·0921					
22.56	14. 5	19.45	·0930					
23. 5	11.45	20.30	·0924					
23.30	17.30	21.40	·0926					
23.47	16. 0	22.15	·0912					
23.59	17. 0		***					
		23. 9	·0902					
		23.23	·0916					
		23.56	·0898					
Mar.18		Mar.18		Mar.18		Mar.18		
0.10	22.17. 0	0. 2	·0903	0.45	·01470	1.40	44 ·0	47 ·0
0.59	19.30	0.15	·0898	2. 6	·01380	3.40	46 ·0	48 ·0
1.45	19.50	0.27	·0902	6.21	·00650	9.40	45 ·8	48 ·0
1.53	19. 0	0.35	·0895	11.42	·00300	21.40	37 ·5	41 ·5
2. 7	21. 0	1.15	·0895	16. 5	·01140			
2.30	19. 0	1.55	·0900	19.32	·01362			
2.55	18.35	2.30:	·0887	22. 2	·01515			
3. 3	20. 0	3. 4	·0902	22.12	·01442			
	***	3. 8	·0898	23.59	·01360			
3.22	18. 0	3.35	·0908					
3.51	19.40	4. 4	·0910					
5. 7	11.30	4.39	·0890					
7.38	11. 5	4.55	·0908					
8. 2:	9.15		***					
8.16:	9.45	5.44	·0918					
8.25:	9.15	6. 8	·0900					
8.40	11. 0		***					
9.47:	11. 0	8.30	·0912					
10.38:	6. 0	8.45:	·0908					
11.18	11.25	9. 4	·0913					
11.40	9.30	9.45	·0919					
13. 0	11.45	9.55	·0912					
19. 8	11. 0		***					
19.17	10. 0	11.30	·0926					
21. 4	9. 0	17.45	·0930					
22.10	10. 0		***					
23.59	13. 0	19. 8	·0928					
		21.30	·0918					
		23.59	·0915					
Mar.19		Mar.19		Mar.19		Mar.19		
0.25	22.14. 0	0. 0	·0915	0.18	·01350	1.40	41 ·0	44 ·0
2.11	16. 0	3.30	·0912	2.48:	·01100	3.40	44 ·0	47 ·5
7.10	10.25	4. 8	·0924	4.42	·00528	9.40	47 ·0	50 ·0
7.40	10.30		***	4.58	·00535	23.13	40 ·0	44 ·0
7.58:	8.45	5.15	·0918	6.13:	·00462			
8.23:	11. 0		***	7.42:	·00513			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Mar.19		Mar.19		Mar.19				
h m	° ′ ″	h m		h m		h m	°	
8.43	22. 6.30	7.11	·0924	9.30	·00468			
9.20	11. 0	7.24	[illegible]	14.21:	·00530			
13.38	10.30	7.44	[illegible]21	21.13	[illegible]			
15.55	12.35	8. 1	·0926	23.59	·01608			
17. 0	8.10	8.24	·0927					
	***	8.33	[illegible]22					
19. 2	10.30	8.45	[illegible]24					
20.43	7. 0	9. 8	[illegible]25					
21.25	7.30	13.50	[illegible]23					
23.59	14.45	14. 5	·0930					
		14.30	·0926					
		15.37	·0924					
		16.35	·0932					
		18.38	·0926					
		20.45	·0927					
		22.45	·0908					
		23. 9	·0903					
Mar.20		Mar.20		Mar.20		Mar.20		
0. 2	22.14.45	0.35	·0914	0.30	·01613	11.24	43 ·0	45 ·0
0.22	17. 0	0.55	·0910	2.32:	·01600	21.42	42 ·0	44 ·5
0.45	16.25	4.30	·0925	10.35:	·00825			
2.32	17.25	4.38	·0928	14.20:	·00895			
7.13	10.25	6. 5	·0924	19.32:	·01442			
14.45	9.50	7.45	·0926	23.17	·01625			
17. 8	10.30	15. 5	·0934		·01562			
17.30	9.30	19.20	·0931	23.59	·01572			
18.16	10.30	20.37	·0924					
20. 3	6.50	23.59	·0914					
22.32	8.15							
23.59	13.40							
Mar.21		Mar.21		Mar.21		Mar.21		
0.13	22.14. 0	0.15	·0913	1.22	·01565	1.40	43 ·5	46 ·5
1.30	17.40	0.45	·0917	4.14:	·01326	3.40	45 ·0	47 ·5
3. 3	17.15	3.50	·0916	8.43:	·00750	9.40	46 ·0	48 ·0
5.40	12. 0	4.24	·0924	12.15:	·00655	21.42	41 ·0	45 ·0
9. 0	11. 0	5.30	·0922	20.16:	·01584			
9.30	11.45	10.30	·0928	23.59	·01532			
9.53	11. 0	11.20	·0926					
11. 8	11. 0	11.35	·0931					
12.23	9.10	11.50	·0926					
13.20	11. 0	12. 2	·0931					
13.31	12.30	13.20	·0926					
14. 8	10.30	13.45	·0930					
15. 4	12.30	16.24	·0930					
15.45:	10.35	19. 5	·0936					
16.25	12. 0	22.40	·0912					
17. 0	10.40	23.59	·0914					
17.12	11.20							
19.48	7.30							
20.53	7. 0							
22.53	11.10							
23.53	14. 0							
Mar.22		Mar.22		Mar.22		Mar.22		
0.20	22.15. 0	0. 0	·0914	0.36	·01478	1.40	44 ·0	47 ·0
1.30	16. 0	3.50	·0909	2.41:	·01333	3.40	47 ·5	50 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing Forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Mar.22	° ′ ″	Mar.22		Mar.22		Mar.22		
h m		h m		h m		h m		
1.48	22.15.30	17.20	·0931	5.30	·00662	9.40	49·0	52·2
2.45	16. 0	23.59	·0905	11.20:	·00610	21.40	42·0	46·0
5.30	12. 0			14.32:	·00802			
11. 3	11. 0			18.36:	·01361			
14. 0	11.50			22.22	·01625			
18.53	9.35			23.59	·01612			
	***							
20.32	6. 0							
21.25	7.10							
23.56	15. 5							
Mar.23		Mar.23		Mar.23		Mar.23		
0.16	22.15. 0	0.30	·0906	0.30	·01623	1.40	44·0	47·5
1.38	12.25	1. 5	·0910	3.23:	·01500	3.40	46·5	48·0
3.30	13.50	4.40	·0912	6.43:	·01072	9.40	47·5	48·0
8. 8	10. 0	5. 5	·0908	9.29:	·00895	21.40	39·5	44·5
9.35	10.30	7.35	·0914	13.59:	·01060			
9.47	9.30	10.40	·0925	18. 7	·01620			
10.28	10. 5	11.16	·0920		·01597			
10.47	8.55	11.40	·0925	20.23	·01620			
11.43	11. 0	17. 5	·0938	22. 9	·01583			
17.56	8.55	21.35	·0922	23.46	·01588			
19.31	8.45	23.59	·0900					
	***							
20.15	5. 0							
	***							
21. 9	5.25							
21.25	7.30							
22.16	7.30							
23.50	14.30							
Mar.24		Mar.24		Mar.24		Mar.24		
0. 0	22.15. 0	0. 0	·0900	0. 0	·01530	1.40	45·5	47·5
1.17	19.50	1.22	·0898	2. 2:	·01380	3.40	48·5	49·5
2.17:	15.40	3. 0	·0912	5.17	·00780	9.40	48·2	51·0
3. 8	19.20	4.16	·0893		(†)	23.20	41·5	47·0
	***	4.55	·0906	10. 5	·00590			
3.42	16.10	5.25	·0901	12.13	·00620			
4. 4	17.30	11.30	·0918	13.50	·00840			
4.32	14. 0	11.45	·0913	17.50	·01522			
6.25	13.20	15. 0	·0922	18.20	·01482			
7.38	10.30	17.45	·0934	22.16	·01410			
10. 4	10. 0	20.30	·0934	22.23	·01330			
10.15	8.30	22.31	·0916	23.59	·01265			
10.26	8.30	22.56	·0924					
10.40:	3.20	23.30	·0915					
11. 0	9. 0							
11.32	1. 0							
11.43	5.30							
12.41	9.30							
13.15	8. 0							
16. 0	10.15							
16.33	9.25							
17.35	11. 0							
18. 0	9.40							
18.41	12.10							
19.53	7.20							
20.32	6. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Mar.24	° ′ ″	h m		h m		h m	′	′
22. 0	22. 8. 0							
23.40	12.30							
23.55	15. 0							
Mar.25		Mar.25		Mar.25		Mar.25		
0. 4	22.15. 0	0. 8	·0920	1.45	·01310	9.40	44·5	47·5
1. 3	18.30		***	2. 0	·01295	21.40	38·5	42·0
1.21	17. 0	1.55	·0920	2.12	·01380			
1.31	17.45	5.20	·0932	4.32:	·01213			
2. 0	16.15	6. 0	·0914	11. 8	·00263			
2.35	18.20	6.30	·0922	18.14	·00288			
5. 5	14.20	9.55	·0914	21. 0	·00850			
5.43	15.35	12.50	·0914	23.59	·01172			
7.43	11.20	13.55	·0946					
8.23	13.20	14.40	·0928					
9.16	11. 0	19.15	·0934					
9.31	13. 0	22. 5	·0914					
10. 8	8. 0	23.59	·0912					
10.24	8.40							
10.40	6.25							
11. 2	6. 0							
11.10	7. 0							
	***							
12.11	5.30							
	***							
12.30	7. 5							
	***							
12.44	6.10							
12.50	7. 0							
13.11	4.15							
	***							
13.34	5.30							
13.52	2. 0							
15. 4	4. 0							
15.50	9.20							
18.27	10.15							
18.41	18.30							
19.28	9. 0							
19.35	7.15							
20.55	8.35							
21.15	7.30							
23. 4	14.50							
23.13	14.20							
23.28	15.30							
23.43	15.25							
Mar.26		Mar.26		Mar.26		Mar.26		
0. 0	22.15.30	0. 9	·0914	0.30	·01205	1.40	41·0	44·5
1.32	18. 0	1.50	·0929	1.30:	·01180	3.40	46·0	48·0
1.51	21.10	2.27	·0916	3.23:	·01070	9.40	49·0	51·0
2.12	18.25	3.28	·0914	5. 1	·00600	23.10	39·5	42·5
	***	3.45	·0925		·00700			
3. 0	17.20	4. 8	·0903	5.54	·00728			
3.40	21.40		***		***			
3.49	19.50	6.45	·0922	7.17:	·00660			
3.55	21. 0	7.23	·0896	8.56	·00735			
4. 2	18.35	7.45	·0908	9.34	·00720			
	***	11.47	·0930	13.10:	·01060			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

March 24. Vertical Force Magnet. The spot of light was off the sheet at $5^h.\ 20^m$; at $10^h.$ an additional piece of paper was attached to the sheet.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.26		Mar.26		Mar.26				
h m	° ′ ″	h m		h m		h m	°	°
4. 15	22. 19. 15	18. 45	·0940	16. 30	·01615			
4. 38	15. 0	19. 15	·0944	22. 7	·01480			
4. 50	17. 25	21. 0	·0925	23. 32	·01485			
	***	21. 32	·0906					
6. 32	13. 0							
6. 47	13. 20							
7. 38	4. 0							
8. 2	9. 30							
9. 8	11. 25							
11. 17	9. 5							
14. 18	11. 10							
	***							
17. 50	9. 40							
18. 37	12. 10							
	***							
19. 46	7. 30							
	***							
20. 7	7. 5							
20. 11	8. 30							
20. 23	5. 35							
	***							
21. 8	10. 0							
	***							
21. 20	8. 0							
	***							
22. 32	16. 35							
22. 36	15. 30							
22. 55	17. 45							
23. 47	17. 35							
23. 58	19. 30							
Mar.27		Mar.27		Mar.27		Mar.27		
0. 5	22. 19. 30	0. 4	·0911	0. 40	·01500	10. 40	46 ·0	49 ·5
0. 8	18. 0	1. 45	·0917	2. 52	·01345	21. 40	44 ·5	47 ·0
	***	1. 55	·0910	7. 16	·00450			
1. 3	19. 5	2. 38	·0918	12. 6	·00384			
	***	8. 16	·0925	12. 48	·00250			
1. 35	23. 0	9. 8	·0920	13. 0	·00265			
3. 3	17. 30	10. 25	·0930	13. 10	·00227			
4. 6	14. 0	11. 45	·0930	13. 22	·00287			
5. 31	12. 45	12. 0	·0920	13. 40	·00250			
5. 42	13. 45	12. 15	·0942	18. 13:	·00500			
6. 32	8. 30	12. 35	·0946	21. 2:	·00790			
7. 42	12. 0	13. 0	·0903	23. 59	·00980			
8. 53	11. 0	13. 23	·0898					
9. 20	8. 45	14. 0	·0926					
11. 36	10. 10	14. 32	·0919					
12. 5	7. 15	15. 32	·0932					
12. 13	22. 9. 30	15. 59	·0927					
12. 33	21. 57. 45	16. 44	·0944					
12. 48	59. 30	17. 25	·0914					
13. 3	52. 30		***					
13. 8	55. 0	17. 52	·0910					
13. 18:	21. 52. 50	18. 45	·0924					
13. 35	22. 1. 15	19. 0	·0924					
13. 48	21. 59. 0	19. 30	·0930					
	***	20. 45	·0928					
14. 13	22. 1. 45	21. 35	·0903 (†)					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.27								
h m	° ′ ″	h m		h m		h m	°	°
14. 36	22. 8. 0							
15. 17	6. 40							
16. 44	11. 5							
17. 1	8. 55							
17. 34	11. 0							
	***							
20. 31	7. 15							
20. 42	6. 15							
	***							
21. 40	7. 25							
	***							
22. 28	14. 30							
	***							
23. 20	15. 0							
	***							
23. 58	13. 25							
	***							
Mar.28		Mar.28		Mar.28		Mar.28		
0. 8	22. 13. 0	3. 0	·0908	0. 23	·00975	1. 40	48 ·0	51 ·0
	***	5. 55	·0906	2. 53	·00590	3. 40	51 ·0	52 ·5
0. 47	17. 30	6. 15	·0914	3. 47	·00740	9. 40	52 ·0	53 ·5
1. 2	17. 5	6. 32	·0898	5. 56	·00745	21. 40	41 ·5	45 ·0
2. 11	16. 30	6. 50	·0909		***			
2. 26	19. 0	7. 30	·0884	7. 52	·00905			
2. 44	16. 30	8. 7	·0920	9. 52	·00920			
3. 6	16. 15	8. 50	·0908	13. 20	·01243			
3. 14	18. 30	12. 8	·0913	16. 2	·01700			
	***	12. 30	·0926	21. 23	·01625			
3. 46	19. 0	12. 45	·0920	23. 59	·01506			
4. 2	13. 0	13. 15	·0925					
4. 29	15. 15	14. 0	·0914					
5. 6	12. 55	14. 30	·0918					
5. 30	14. 0	16. 23	·0924					
	***		***					
6. 18	12. 0	18. 0	·0932					
6. 38	7. 30	18. 25	·0926					
7. 7	22. 8. 30	18. 30	·0932					
7. 40	21. 55. 0	23. 59	·0908					
7. 50	21. 55. 20							
8. 7	22. 3. 0							
8. 37	8. 0							
9. 17	10. 30							
11. 32	11. 0							
12. 3	9. 35							
12. 23	14. 0							
12. 51	10. 40							
13. 13:	13. 45							
13. 55	10. 30							
14. 46	14. 0							
15. 16	11. 0							
17. 52	11. 45							
18. 15	14. 30							
19. 16	11. 30							
19. 22	9. 30							
19. 28	11. 5							
19. 52	8. 40							
22. 17	8. 15							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 28								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 11. 55							
Mar. 29		Mar. 29		Mar. 29		Mar. 29		
1. 0	22. 17. 20	0. 25	·0907	0. 30	·01480	1. 40	46 ·0	48 ·5
3. 47	12. 30	0. 55	·0912	2. 14:	·01270	3. 40	51 ·0	52 ·5
4. 25	13. 30	1. 30	·0900	4. 5	·00680	9. 40	52 ·5	54 ·5
5. 18	11. 35	3. 10	·0898	7. 38	.00700	21. 40	43 ·0	45 ·5
6. 37	10. 45	4. 30	·0919	9. 35	·00860			
7. 16	9. 30	6. 25	·0910	13. 23:	·01217			
8. 2	11. 15	6. 55	·0918	16. 28	·01670			
14. 32	8. 30	7. 20	·0910	23. 22	·01570			
15. 46	9. 25	14. 0	·0927	23. 58	·01410			
16. 19	12. 10		***					
16. 55	10. 0	14. 35	·0921					
17. 30	10. 0		***					
18. 22	10. 30	17. 10	·0934					
20. 40	7. 15	17. 35	·0930					
20. 46	15. 10	18. 15	·0934					
20. 58	7. 0	20. 55	·0923					
21. 13	6. 0	22. 0	·0904					
23. 59	12. 30	22. 55	·0904					
Mar. 30		Mar. 30		Mar. 30		Mar. 30		
1. 4	22. 16. 30	0. 55	·0890	0. 30	·01382	1. 40	48 ·5	50 ·0
1. 26	20. 0	2. 12	·0884	2. 23	·00680	3. 40	52 ·0	53 ·0
2. 0	20. 0	2. 40	·0900	4. 10	·00840	9. 40	55 ·5	59 ·0
2. 17	17. 45	3. 15	·0887	6. 45	·00858	21. 40	48 ·0	51 ·0
	***	4. 20	·0907	10. 36	·01246			
3. 6	18. 20		***	16. 23	·01785			
3. 28	14. 20	5. 16	·0910	23. 59	·01718			
6. 1	8. 30	5. 45	·0896					
7. 20	8. 30	7. 5	·0918					
7. 38	7. 0	7. 50	·0895					
9. 29	22. 9. 20	9. 30	·0916					
10. 2	21. 54. 50	9. 55	·0902					
10. 25	21. 58. 30	10. 35	·0917					
10. 43	22. 15. 0	10. 46	·0908					
11. 8	15. 20	19. 0	·0925					
11. 56	8. 50	22. 45	·0908					
12. 13	6. 45	23. 59	·0890					
13. 20	10. 0							
	***							
19. 0	7. 30							
	***							
19. 28	6. 15							
19. 38	8. 10							
	***							
20. 22	6. 50							
20. 28	9. 0							
20. 31	6. 50							
	***							
21. 4	8. 30							
22. 23	7. 30							
	***							
23. 59	14. 50							
Mar. 31		Mar. 31		Mar. 31		Mar. 31		
0. 30	22. 18. 0	2. 0	·0884	0. 45	·01692	1. 40	51 ·0	53 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 31								
h m	° ′ ″	h m		h m		h m	°	°
0. 48	22. 19. 20	2. 45	·0884	2. 40:	·01480	3. 40	55 ·0	56 ·0
1. 44	17. 10		***	5. 22	·00930	9. 40	57 ·0	58 ·5
2. 27	20. 25	4. 0	·0906	6. 29	·00920	21. 40	52 ·0	54 ·5
2. 45	19. 30		***		·01068			
3. 8	22. 0	5. 20	·0885	6. 48	·01038			
	***		***	8. 28	·01090			
3. 50	11. 10	7. 40	·0904	9. 58	·01095			
4. 2	13. 50	8. 4	·0891	13. 50	·01335			
4. 12	12. 30	8. 25	·0913	14. 16	·01334			
4. 47	19. 0	9. 0	·0902	16. 27	·01537			
5. 35	13. 15		***	21. 9	·01775			
6. 32	12. 25	12. 55	·0912	23. 52	·01776			
7. 20	6. 45	13. 38	·0902					
7. 48	22. 7. 20	14. 4	·0918					
8. 13	21. 58. 25	14. 30	·0909					
8. 26	22. 3. 30		***					
9. 34	8. 25	16. 30	·0914					
9. 47	7. 30	17. 10	·0906					
12. 7	9. 25		***					
13. 26	8. 0	18. 36	·0918					
14. 8	18. 30		***					
14. 47	18. 20	19. 50	·0908					
15. 5	10. 50	21. 30	·0908					
18. 16	7. 35	22. 43	·0874					
20. 21	10. 0	23. 59	·0890					
21. 6	8. 30							
22. 25	10. 25							
23. 17	14. 30							
23. 35	14. 0							
23. 55	15. 30							
Apr. 1		Apr. 1		Apr. 1		Apr. 1		
0. 18	22. 15. 40	1. 0	·0890	0. 8	·01778	1. 40	54 ·0	55 ·0
0. 45	15. 30	2. 15	·0896	2. 30:	·01644	3. 40	56 ·5	57 ·5
1. 19	17. 20	5. 15	·0882	5. 43:	·01175	9. 40	56 ·0	57 ·0
2. 19	17. 0	5. 38	·0898	8. 19:	·01028	21. 40	49 ·5	51 ·5
3. 11	14. 0		***	13. 38	·01514			
4. 0	14. 20	6. 35	·0892	13. 56	·01523			
4. 57	12. 30		***	15. 43	·01778			
5. 32	8. 10	12. 25	·0902		·01750			
	***	12. 40	·0916	19. 59	·01720			
6. 40	10. 40	13. 13	·0899		·01590			
8. 4	9. 10	13. 38	·0914	21. 53:	·01615			
11. 50	9. 45		***	23. 32	·01505			
12. 2	9. 0	17. 14	·0898					
12. 24	10. 5	18. 20	·0916					
12. 37	9. 20	18. 45	·0904					
12. 47:	10. 20		***					
13. 13	7. 5	22. 45	·0902					
13. 47	18. 0							
14. 57:	3. 15							
	***							
16. 31	6. 30							
17. 47	11. 35							
18. 21	9. 0							
	***							
20. 2	9. 15							
	***							
21. 3	11. 15							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 1								
h m	° ′ ″	h m		h m		h m		
21. 17	22. 13. 0							
22. 27	8. 50							
22. 40	11. 10							
23. 32	12. 30							
Apr. 2		Apr. 2		Apr. 2		Apr. 2		
0. 0	22. 13. 0	3. 30	·0884	0. 15	·01460	1. 40	54 ·5	55 ·0
	***	5. 0	·0874	1. 48:	·01257	3. 40	56 ·0	58 ·0
2. 28	15. 35	19. 0	·0900	3. 36	·00815	9. 40	58 ·5	58 ·5
5. 11	8. 30	23. 0	·0884	5. 17	·00883	23. 20	49 ·0	53 ·0
7. 20	7. 50	23. 59	·0882	7. 5	·00880			
10. 32	9. 55			9. 46	·01182			
11. 50	8. 35			15. 22	·01828			
13. 0	10. 0			15. 29	·01804			
14. 43	9. 15			20. 7:	·01800			
	***			21. 48	·01740			
15. 20	11. 15			23. 30	·01642			
16. 38	8. 25							
19. 30	7. 10							
21. 0	5. 50							
23. 13	9. 15							
23. 23	10. 14							
Apr. 3		Apr. 3		Apr. 3		Apr. 3		
0. 5	22. 14. 5	0. 0	·0882	0. 30	·01593	11. 0	53 ·0	54 ·5
0. 45	14. 10		***	2. 38	·01515	21. 40	49 ·0	53 ·0
1. 0	15. 45	4. 5	·0900	6. 20:	·01215			
2. 18	16. 30		(†)	15. 22	·00910			
5. 15	11. 30	11. 15	·0904	19. 44:	·00910			
12. 38	11. 5	15. 0	·0904	22. 48	·00695			
14. 43	10. 35	16. 5	·0908					
15. 34:	12. 0		(†)					
16. 17:	9. 0							
17. 17	9. 15							
20. 46	6. 45							
21. 25	6. 40							
22. 40	11. 25							
Apr. 4		Apr. 4		Apr. 4		Apr. 4		
0. 30	22. 16. 20	1. 0	·0886	0. 30:	·00619	1. 40	55 ·5	57 ·0
2. 38	16. 30	20. 30	·0912	3. 54:	·00907	3. 40	58 ·5	58 ·5
4. 0	13. 10		***	9. 13:	·00885	9. 40	60 ·5	61 ·5
5. 36	10. 45	22. 45	·0890	16. 9:	·01220	21. 40	56 ·5	58 ·0
12. 23	10. 35	23. 59	·0902	20. 40:	·01390			
14. 16:	9. 5			23. 0	·01390			
14. 32:	9. 55			23. 59	·01340			
15. 22	8. 55							
16. 22	10. 30							
	***							
19. 20	3. 30							
	***							
19. 57	5. 30							
19. 58	4. 15							
	***							
20. 16	4. 25							
20. 23	7. 0							
	***							
20. 37	6. 5							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 4								
h m	° ′ ″	h m		h m		h m		
20. 50	22. 8. 20							
	***							
21. 11	6. 0							
21. 17	8. 35							
21. 23	6. 25							
22. 46	10. 0							
23. 59	17. 5							
Apr. 5		Apr. 5		Apr. 5		Apr. 5		
1. 46	22. 24. 0	1. 40	·0990*	0. 36	·01288	1. 40	57 ·5	59 ·0
2. 0	23. 0	3. 40	·0908*	4. 56	·00930	3. 40	60 ·0	61 ·5
2. 20	24. 45	9. 40	·0903*		·00760	9. 40	60 ·2	63 ·0
2. 43	22. 10	21. 40	·0888*	10. 37	·00974	21. 40	56 ·0	59 ·0
2. 47	23. 40			10. 46	·00920			
3. 1	19. 0			11. 0	·00980			
3. 48	15. 15			11. 21	·00900			
4. 14	17. 25			12. 2	·01015			
5. 8	13. 45			12. 25	·01000			
5. 40	14. 0			14. 46	·01390			
6. 21	10. 10				***			
6. 46	3. 25			16. 29	·01523			
7. 18	9. 35			19. 4:	·01843			
7. 42	8. 55			22. 8	·01870			
8. 30	10. 25			23. 59	·01780			
8. 55	9. 5							
9. 0	6. 50							
9. 13	7. 30							
9. 23	4. 25							
9. 37	13. 0							
10. 19	2. 0							
10. 30	4. 10							
10. 35	1. 0							
10. 44	22. 9. 35							
11. 4	21. 52. 10							
11. 22	22. 4. 50							
11. 38	21. 52. 35							
11. 43	54. 0							
11. 50	21. 50. 5							
12. 19	22. 10. 0							
12. 30	0. 30							
12. 36	2. 25							
12. 44	1. 10							
	***							
13. 22	8. 55							
13. 37	8. 50							
14. 1	12. 0							
14. 33	9. 0							
14. 38	10. 5							
15. 1	10. 35							
15. 17	15. 20							
15. 32	3. 0							
16. 8	21. 35							
16. 32	12. 30							
17. 0	8. 0							
	***							
18. 2	5. 35							
18. 6	3. 40							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

April 5. There was no Photographic Register of the Horizontal Force Magnet. It is believed that the cover of the box was in contact with the suspension thread. The eye observations are probably not trustworthy.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 5								
h m	° ′ ″	h m		h m		h m	°	°
18. 15	22. 7. 30							
	***							
18. 27	7. 30							
18. 39	3. 0							
18. 48	8. 45							
18. 54	7. 0							
	***							
19. 23	12. 45							
19. 30	10. 30							
	***							
20. 1	13. 0							
20. 10	10. 0							
20. 17	12. 0							
20. 20	8. 0							
20. 33	13. 35							
	***							
20. 45	10. 0							
20. 52	13. 15							
20. 56	10. 5							
	***							
21. 17	13. 15							
21. 26	11. 15							
21. 43	10. 40							
21. 50	12. 30							
21. 58	10. 35							
	***							
22. 28	13. 0							
22. 32	10. 55							
	***							
22. 42	15. 30							
22. 44	13. 30							
	***							
23. 14	15. 30							
23. 18	17. 0							
23. 32	15. 0							
23. 47	15. 0							
23. 59	18. 30							
Apr. 6		Apr. 6		Apr. 6		Apr. 6		
0. 7	22. 20. 45	1. 30	·0860	0. 30	·01737	1. 40	60 ·0	63 ·0
0. 22:	18. 20	2. 45	·0852	1. 15	·01629	3. 40	62 ·5	62 ·5
1. 32	28. 20	4. 30	·0882	1. 55	·01691	9. 40	62 ·5	62 ·5
1. 44	23. 0	5. 16	·0854	4. 51	·01300	21. 40	53 ·0	56 ·0
1. 58	21. 30	6. 20	·0880		***			
2. 7	24. 45	6. 45	·0870	5. 45	·01250			
2. 10	22. 50	7. 27	·0884	6. 53	·01115			
2. 15	23. 15	8. 0	·0875	8. 13	·01058			
2. 25	21. 10	8. 8	·0892	8. 23	·01010			
2. 36	23. 5	8. 20	·0870	9. 45	·01040			
2. 58	18. 30	8. 30	·0882	10. 14	·00950			
3. 29	16. 30	8. 40	·0872	10. 40	·00937			
3. 40	19. 30	9. 0	·0883	14. 23	·01322			
3. 47	16. 40	9. 39	·0894	14. 44	·01284			
4. 46	18. 20	10. 0	·0875	17. 13	·01417			
	***	10. 24	·0900	18. 47	·01551			
5. 4	13. 30	10. 40:	·0880		***			
5. 15	14. 50	10. 50	·0890	21. 17	·01778			
5. 27	9. 25	11. 3	·0874	23. 59	·01838			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 6								
h m	° ′ ″	h m		h m		h m	°	°
5. 47:	22. 7. 30	11. 32	·0870					
6. 6	12. 10	12. 30	·0880					
6. 18	12. 25	14. 10	·0880					
6. 29	17. 0	14. 25	·0892					
7. 20	9. 15	14. 35	·0886					
7. 32	11. 45		***					
7. 40	8. 30	15. 45	·0906					
7. 50	11. 10	16. 35	·0878					
8. 3	8. 15		***					
8. 10	9. 35	18. 0	·0884					
8. 13	7. 50	18. 45	·0856					
8. 22	17. 10		***					
8. 30	9. 50	22. 45	·0848					
8. 38	11. 45							
9. 0	7. 10							
9. 7	9. 35							
9. 16	5. 0							
9. 23	7. 0							
9. 39	7. 30							
9. 54:	18. 20							
10. 13	8. 0							
10. 17	8. 45							
10. 29	2. 30							
10. 36	22. 6. 40							
10. 53	21. 59. 35							
11. 3	22. 2. 30							
11. 17	21. 59. 15							
11. 31	22. 5. 25							
11. 46	3. 45							
12. 28	9. 50							
13. 44	9. 0							
14. 18	5. 45							
14. 40	19. 30							
15. 47	2. 35							
15. 58	22. 3. 0							
16. 5	21. 59. 10							
16. 32	21. 59. 25							
17. 2	22. 5. 20							
	***							
17. 40	7. 40							
17. 57	7. 20							
18. 35	11. 50							
18. 52	9. 30							
19. 41	9. 95							
19. 55	7. 10							
20. 14	8. 15							
20. 38	21. 40							
20. 57	19. 0							
	***							
21. 18	21. 0							
21. 26	24. 5							
	***							
22. 30	14. 35							
23. 55	22. 0							
Apr. 7		Apr. 7		Apr. 7		Apr. 7		
0. 32	22. 17. 10		(†)	0. 30	·01858	1. 40	57 ·0	58 ·0
1. 10	19. 25	3. 15	·0872	2. 23	·01810	3. 40	57 ·0	58 ·8

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 7		Apr. 7		Apr. 7		Apr. 7		
h m	° ′ ″	h m		h m		h m	°	°
1. 17	22. 17. 30		(†)	6. 54	·01822	9. 40	59 ·0	59 ·7
	***	6. 55	·0845	7. 58	·01223	21. 40	49 ·5	53 ·0
1. 43	18. 30		***	8. 30	·01195			
2. 10	17. 0		(†)	11. 24:	·01282			
2. 16	18. 0	13. 0	·0878	16. 20	·01829			
4. 38	12. 30	20. 15	·0894		·01800			
4. 51	13. 10	22. 20	·0870	19. 25:	·01802			
5. 53	10. 45	23. 37	·0882	22. 31	·01750			
6. 30	22. 10. 40	23. 59	·0878	23. 59	·01760			
7. 11	21. 58. 0							
7. 50	22. 5. 0							
8. 11	12. 0							
8. 31	2. 0							
8. 41	5. 45							
8. 53	0. 0							
9. 4	1. 5							
9. 12	0. 30							
10. 0	9. 5							
12. 20	10. 55							
12. 52	9. 40							
14. 32	11. 30							
14. 55:	14. 0							
15. 31	10. 0							
16. 20	8. 10							
19. 0	7. 10							
	***							
21. 13	4. 25							
22. 42	14. 0							
23. 13	12. 15							
23. 59	16. 10							
Apr. 8		Apr. 8		Apr. 8		Apr. 8		
0. 5	22. 16. 15	0. 30	·0882	0. 30	·01758	1. 40	52 ·5	54 ·0
0. 45	21. 0	1. 15	·0880	1. 44:	·01768	3. 40	54 ·5	55 ·5
1. 13	18. 5	3. 0	·0898	2. 52	·01700	9. 40	53 ·5	55 ·0
	***	3. 24	·0914	3. 10	·01720	21. 40	46 ·0	48 ·5
1. 57	19. 0	4. 0	·0894	6. 16	·01518			
2. 32	23. 15		***	8. 7	·01470			
2. 43	22. 15	5. 39	·0894	9. 49	·01475			
3. 6	14. 0	6. 2	·0926	10. 6	·01448			
	***	6. 23	·0886	12. 5	·01527			
3. 52	19. 20	6. 35	·0900	12. 42	·01535			
	***	6. 45	·0890	14. 30	·01690			
4. 29	16. 35	6. 55	·0896		·01655			
4. 45	18. 20		***	18. 17	·01648			
5. 10	15. 15	8. 0	·0880		·01475			
5. 30	16. 30	10. 0	·0886	19. 14	·01545			
5. 46	15. 15	10. 14	·0875	21. 48	·01540			
5. 53	15. 25	10. 35	·0897	23. 59	·01455			
6. 0	9. 30	10. 45	·0887					
6. 9	7. 50	11. 15	·0896					
6. 25	6. 5	11. 25	·0886					
6. 36	9. 10		***					
6. 50	6. 0	12. 0	·0886					
7. 5	8. 30	12. 20	·0898					
	***	13. 0	·0884					
8. 0	9. 30	13. 25	·0898					
8. 52	7. 30	14. 30	·0886					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 8		Apr. 8						
h m	° ′ ″	h h		h m		h m	°	°
9. 6	22. 4. 30	15. 5	·0902					
9. 17	5. 45	16. 15	·0880					
9. 42	4. 45	17. 8	·0900					
	***	19. 25	·0902					
10. 1	14. 5	20. 15	·0884					
10. 13	9. 55	22. 14	·0886					
10. 16	10. 25	22. 45	·0872					
10. 27	4. 55	23. 59	·0868					
10. 34	6. 30							
10. 49	4. 0							
10. 58	4. 0							
11. 15	7. 20							
	***							
12. 15	6. 40							
12. 35:	12. 5							
13. 14:	7. 30							
13. 34:	9. 0							
13. 52	7. 5							
14. 23	13. 15							
15. 42	4. 30							
16. 10	10. 30							
16. 33	12. 5							
17. 43:	7. 0							
18. 15	8. 30							
	***							
22. 18	9. 0							
23. 31	16. 10							
23. 59	17. 25							
Apr. 9		Apr. 9		Apr. 9		Apr. 9		
0. 15	22. 18. 30	0. 30	·0870	0. 20	·01440	1. 40	49 ·8	53 ·0
1. 34	17. 30		(†)	3. 5	·01145	3. 40	53 ·5	54 ·0
2. 2	21. 5	5. 15	·0874	4. 14	·00880	9. 40	53 ·5	55 ·5
	***	7. 2	·0876	5. 13	·00795	23. 20	49 ·5	53 ·0
2. 58	12. 30	7. 17	·0903	7. 25	·00837			
3. 30	18. 0	7. 37	·0908	7. 55	·00780			
	***	8. 6	·0872	8. 59	·00734			
4. 11	16. 25	8. 45	·0884	9. 50	·00740			
4. 30	8. 50	9. 30	·0880	10. 2	·00690			
4. 38	13. 20	9. 51	·0916	11. 38:	·00800			
4. 56	14. 10	10. 3	·0894	12. 26	·00752			
5. 11	11. 25	10. 20	·0906	14. 33	·00988			
5. 18	13. 20	11. 0	·0886	14. 57	·00976			
5. 38	10. 15	11. 38	·0900	19. 10:	·01400			
6. 0	12. 30	12. 23	·0896	23. 45	·01410			
6. 36	11. 20	12. 55	·0912					
6. 52	22. 9. 0	14. 0	·0890					
7. 15	21. 57. 0	14. 35	·0886					
7. 47	22. 9. 30	16. 0	·0906					
8. 23	5. 0	16. 55	·0847					
8. 46:	8. 0		***					
9. 7	5. 30	20. 30	·0892					
9. 16	6. 5	21. 45	·0876					
9. 40	5. 20	23. 59	·0890					
9. 55	10. 45							
10. 10:	1. 25							
10. 22	4. 10							
10. 57	4. 30							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 9								
h m	° ′ ″	h m		h m		h m	°	°
12. 18	22. 12. 10							
12. 45	5. 30							
13. 22	4. 15							
13. 43	0. 0							
14. 12	4. 0							
14. 40:	16. 5							
	***							
15. 57:	6. 15							
17. 30	12. 30							
18. 7	10. 35							
19. 1	12. 0							
19. 13	10. 0							
19. 18	11. 0							
19. 26	8. 5							
	***							
19. 37	9. 30							
	***							
20. 17	7. 15							
	***							
23. 26	12. 30							
Apr. 10		Apr. 10		Apr. 10		Apr. 10		
0. 0	22. 14. 20	0. 0	·0883	0. 0	·01400	8. 15	54 ·8	57 ·3
0. 24	16. 30	0. 40	·0876	3. 6:	·01174	21. 40	49 ·0	52 ·0
0. 35	16. 0	1. 20	·0890	6. 2	·00740			
0. 40	14. 25	7. 15	·0908		·00768			
1. 34	17. 30	8. 5	·0898	6. 31:	·00760			
7. 10	10. 0	9. 5	·0910	8. 2:	·00802			
7. 32	8. 25	10. 50	·0900	10. 12	·00771			
8. 41	10. 0	15. 5	·0909	15. 46:	·01020			
8. 55	6. 35		***	19. 23:	·01487			
10. 20	10. 0	15. 45	·0922	21. 46	·01730			
12. 35	10. 10	17. 45	·0900	21. 50	·01700			
13. 0	13. 30	18. 2	·0907	23. 59	·01692			
14. 11:	7. 55	18. 40	·0900					
14. 49:	14. 40	20. 30	·0900					
15. 38	5. 45	22. 7	·0893					
15. 58	5. 30	23. 7	·0876					
16. 30	2. 45	23. 59	·0874					
17. 40	7. 0							
17. 47	6. 20							
18. 10	8. 45							
18. 30	7. 30							
18. 43	9. 25							
18. 57	8. 25							
19. 51	13. 10							
20. 0	12. 0							
20. 15	13. 0							
20. 53	9. 45							
21. 16	10. 20							
21. 43	8. 50							
23. 59	15. 0							
Apr. 11		Apr. 11		Apr. 11		Apr. 11		
0. 30	22. 16. 25	0. 25	·0878	0. 30	·01668	1. 40	52 ·0	54 ·5
2. 7	20. 0	2. 54	·0882	3. 5:	·01444	3. 40	54 ·0	56 ·5
2. 40	20. 0	3. 10	·0890	5. 32	·01025	9. 40	57 ·0	60 ·0
2. 50	20. 50	3. 25	·0884	7. 8:	·01035	21. 40	54 ·5	56 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 11		Apr. 11		Apr. 11				
h m	° ′ ″	h m		h m		h m	°	°
3. 20	22. 19. 0		***		·00980			
3. 43	19. 45	5. 5	·0893	9. 2	·01132			
3. 48	18. 10	5. 35	·0919	10. 22:	·01090			
3. 59	19. 0	6. 5	·0894	11. 40	·01132			
4. 5	17. 30		***	12. 7	·01096			
4. 43	17. 0	7. 30	·0903	16. 16	·01288			
4. 55	15. 0	8. 17	·0887	17. 17	·01298			
5. 4	17. 0		***	21. 0	·01630			
5. 17	9. 5	11. 30	·0892	23. 0	·01730			
5. 41	14. 45	11. 50	·0912	23. 59	·01722			
5. 54	12. 35	12. 26	·0892					
6. 10	14. 25	13. 25	·0886					
6. 22	11. 0	14. 30	·0896					
6. 28	11. 30	15. 45	·0890					
6. 38	9. 0	17. 15	·0907					
6. 45	9. 15	17. 45	·0902					
7. 6	4. 0	18. 7	·0910					
	***		***					
7. 24	6. 15	20. 0	·0890					
7. 42	5. 0	20. 45	·0880					
7. 53	7. 40	23. 10	·0874					
8. 15:	7. 20							
8. 50:	10. 0							
9. 37	7. 40							
10. 22	8. 40							
10. 52:	11. 35							
11. 7	10. 30							
11. 35	11. 0							
11. 52	16. 30							
12. 34:	8. 0							
12. 53:	7. 45							
13. 43:	11. 30							
15. 3	9. 0							
16. 25	11. 55							
17. 21	8. 55							
18. 25	12. 5							
20. 19:	9. 15							
21. 1	15. 50							
21. 18	13. 30							
21. 44	14. 45							
22. 3	11. 20							
22. 29	9. 40							
22. 55	11. 40							
23. 25	10. 30							
23. 59	14. 20							
Apr. 12		Apr. 12		Apr. 12		Apr. 12		
0. 20	22. 13. 35	3. 45	·0880	0. 18	·01715	1. 40	57 ·0	58 ·5
0. 57	16. 30	4. 45	·0893	1. 55	·01640	3. 40	58 ·5	60 ·0
1. 8	16. 0	5. 15	·0880	4. 36	·01388	9. 40	58 ·5	60 ·5
2. 2	19. 20	5. 55	·0896		·01562	21. 40	48 ·0	52 ·0
2. 20	17. 0	6. 15	·0886	5. 22	·01512			
2. 43	18. 30		***	9. 18	·01677			
2. 51	17. 30	9. 5	·0893	10. 13	·01773			
3. 23	18. 15	9. 16	·0884	10. 26	·01760			
5. 32	13. 50	9. 30	·0896	12. 6	·01905			
5. 46	14. 15	9. 56	·0882	12. 55	·01806			
6. 23	11. 35	10. 12	·0906	14. 25	·01854			

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Apr. 12		Apr. 12		Apr. 12				
h m	° ′ ″	h m		h m		h m	°	°
8. 7	22. 19. 20	10. 27	·0898	18. 45	·01831			
8. 34	6. 20	10. 59	·0900	23. 59	·0174			
9. 14	7. 25	11. 30	·0875					
9. 28	3. 50	12. 15	·0892					
9. 45	5. 30	12. 30	·0913					
10. 4	3. 0	13. 24	·0882					
10. 17	9. 0	19. 0	·0904					
10. 33	22. 2. 20	22. 55	·0885					
10. 53	21. 58. 10							
11. 25	22. 2. 0							
11. 35	0. 30							
11. 52	1. 45							
12. 41	12. 0							
13. 2	7. 30							
13. 14	7. 10							
13. 30	4. 30							
13. 42	5. 45							
14. 0	5. 35							
14. 32	9. 0							
16. 45	8. 50							
18. 20	9. 50							
18. 23	8. 20							
18. 55	8. 25							
19. 4	9. 0							
20. 34	7. 0							
22. 11	8. 0							
23. 44	12. 0							
Apr. 13		Apr. 13		Apr. 13		Apr. 13		
0. 2	22. 12. 35	0. 0	·0887	0. 45	·01722	1. 40	51 · 0	54 · 0
1. 7	17. 20	0. 38	·0881	1. 0	·01670	3. 40	53 · 5	54 · 0
2. 36	20. 0	4. 0	·0894	2. 52:	·01535	9. 40	49 · 0	52 · 5
4. 34	15. 0	5. 8	·0912	5. 1:	·01335	21. 48	44 · 5	48 · 0
6. 45	10. 30	6. 20	·0910	9. 25:	·01370			
7. 11	3. 50	6. 40	·0898	14. 13	·01775			
7. 26	4. 20	7. 20	·0913		·01742			
7. 40	6. 30		***	17. 32	·01695			
7. 50:	5. 45	7. 50	·0900		·01565			
8. 14	8. 25	19. 38	·0918	18. 19	·01615			
9. 29	8. 0	23. 35	·0888	21. 8	·01505			
11. 47	10. 0			23. 51	·01452			
16. 14	9. 35							
16. 35	11. 0							
17. 0	10. 0							
18. 34	9. 25							
20. 32	7. 0							
22. 18	7. 0							
23. 32	8. 0							
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
0. 30	22. 11. 25	1. 45	·1054	0. 31	·01400	1. 40	49 · 0	53 · 5
1. 41	13. 10	8. 45	·1074	2. 3:	·01080	3. 40	54 · 0	55 · 5
2. 4	16. 30	9. 8	·1068	3. 14	·00652	9. 40	55 · 0	56 · 5
2. 49	16. 0	9. 25	·1076	7. 33	·00762	21. 40	47 · 5	50 · 7
3. 4	16. 45	10. 30	·1072	10. 10	·00755			
5. 20	14. 20		***	14. 13:	·00975			
8. 47	13. 0	13. 15	·1070	18. 2:	·01442			
9. 23:	9. 0	19. 0	·1089	20. 42	·01770			
					·01675			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Apr. 14	° ′ ″	Apr. 14		Apr. 14				
h m		h m		h m		h m	°	°
12. 14:	22. 12. 5	22. 8	·1068	23. 50	·01438			
11. 0	9. 20	23. 50	·1066					
12. 43:	10. 30							
13. 8	8. 50							
13. 58	11. 20							
16. 5	11. 5							
18. 13	14. 0							
18. 14	16. 30							
20. 10	17. 20							
21. 15	16. 15							
22. 8	17. 30							
22. 25	16. 0							
22. 58	15. 50							
23. 15	14. 45							
23. 59	16. 35							
Apr. 15		Apr. 15		Apr. 15		Apr. 15		
0. 37	22. 16. 15	0. 0	·1065	0. 22	·01652	1. 40	50 · 0	52 · 5
1. 35	18. 15	2. 0	·1065	1. 48	·01657	3. 40	52 · 0	54 · 5
6. 45	13. 10	5. 40	·1084	3. 21:	·01510	9. 40	54 · 0	56 · 0
12. 0	14. 10	19. 30	·1088	9. 1	·00755	21. 40	51 · 0	53 · 5
12. 58	15. 50	23. 59	·1062	13. 46:	·00726			
14. 35	15. 25			22. 46	·01200			
17. 27	17. 0			23. 59	·01183			
19. 5	20. 0							
19. 53	20. 30							
21. 37	18. 25							
22. 6	19. 35							
22. 26	17. 20							
23. 59	15. 0							
Apr. 16		Apr. 16		Apr. 16		Apr. 16		
1. 40	22. 18. 13*	1. 40	·1042*	0. 15	·01167	1. 40	54 · 5	56 · 0
3. 40	23. 35*	3. 40	·1067*	2. 7:	·01030	3. 40	56 · 0	57 · 5
9. 40	14. 38*	9. 40	·1083*	3. 50	·00780	9. 40	57 · 0	58 · 0
23. 20	16. 59*	23. 20	·1059*		·00855	23. 20	54 · 0	54 · 5
				6. 37	·00859			
				8. 39	·00874			
					·01078			
				11. 23	·01049			
				13. 38:	·01190			
				20. 18:	·01597			
				22. 30:	·01675			
				23. 30	·01670			
Apr. 17		Apr. 17		Apr. 17		Apr. 17		
0. 0	22. 18. 10	0. 0	·1068	0. 17	·01623	12. 35	58 · 0	60 · 0
0. 18	17. 30	0. 30	·1053	3. 22:	·01436	21. 40	56 · 5	57 · 5
1. 17	19. 30	1. 30	·1054	8. 31	·00965			
1. 26	19. 0	2. 20	·1072		·00915			
2. 7	20. 20	3. 34	·1064	9. 14	·00920			
2. 50	18. 20	4. 0	·1070		·01100			
3. 58	17. 10	4. 15	·1064	13. 14:	·01050			
8. 6	16. 0	5. 10	·1086	16. 24	·01165			
12. 15	18. 25	7. 10	·1078	17. 20	·01190			
13. 25	15. 35	13. 15	·1078	20. 40:	·01468			
14. 43	15. 15	14. 50	·1060	23. 59	·01520			
16. 7	19. 15	16. 0	·1070					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

April 14d. 0h. The adjustments of the Horizontal Force Magnet were altered so as to cause the pencil of light to fall on the paper about 0·0085 nearer the base line: so that all readings from this time are 0·0085 greater than those in the series ending April 13d. 23h. 35m.

April 16. The Photographic Traces of the Declination and Horizontal Force Magnets were too faint to use.

Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Readings of Thermometers. of H. F. Magnet	Readings of Thermometers. of V. F. Magnet.
Apr. 17		Apr. 17						
h m	° ′ ″	h m		h m		h m		
16. 35	22. 22. 5	16. 30	·1084					
17. 24	20. 50	17. 12	·1068					
19. 54	22. 30	19. 0	·1082					
21. 0	20. 30	22. 45	·1054					
22. 45	20. 0	23. 59	·1050					
23. 20	21. 0							
23. 32	19. 50							
23. 59	20. 20							
Apr. 18		Apr. 18		Apr. 18		Apr. 18		
0. 28	22. 19. 50	0. 0	·1050	0. 30	·01512	1. 40	57 ·0	59 ·5
0. 36	19. 35	1. 0	·1047	2. 9:	·01303	3. 40	59 ·5	61 ·0
0. 47	21. 30	2. 0	·1062	5. 5	·00935	9. 40	62 ·0	62 ·5
0. 58	20. 0	6. 30	·1076		·00955	21. 40	55 ·0	57 ·0
1. 45	20. 50	12. 0	·1074	6. 28	·00960			
2. 30	18. 15		***		·01150			
5. 30	12. 20	12. 50	·1084	7. 10	·01118			
6. 44	11. 45	14. 15	·1074	13. 12:	·01360			
11. 7	13. 20		***	17. 30	·01852			
11. 59	12. 30	17. 0	·1076		·01836			
12. 11	13. 30	20. 45	·1073	23. 30	·01799			
13. 10	10. 25	23. 59	·1060					
15. 54	11. 0							
18. 0	13. 50							
20. 40	18. 10							
22. 0	17. 40							
22. 25:	16. 50							
23. 0	17. 55							
23. 48	16. 0							
Apr. 19		Apr. 19		Apr. 19		Apr. 19		
0. 9	22. 17. 35	0. 0	·1061	0. 30	·01792	1. 40	57 ·0	57 ·5
0. 40	17. 0	2. 0	·1060	2. 36:	·01685	3. 40	59 ·0	60 ·0
1. 30	19. 0	4. 30	·1082	5. 35	·01405	10. 40	58 ·5	59 ·8
3. 23	17. 50	5. 30	·1068	11. 8	·01823	21. 40	52 ·8	55 ·0
3. 52	15. 30		***	15. 2:	·01458			
4. 53	16. 30	6. 15	·1084	19. 20	·01820			
5. 17	15. 20	7. 16	·1070		·01795			
6. 25	15. 45	7. 44	·1078	23. 55	·01779			
7. 4	13. 0	8. 15	·1064					
7. 43	12. 15	8. 50	·1072					
8. 6	13. 25	9. 23	·1065					
8. 26	11. 0	9. 32	·1072					
	***	9. 55	·1062					
8. 52	12. 50	10. 56	·1070					
9. 3	12. 0	11. 10	·1060					
9. 25	5. 30	14. 0	·1075					
9. 58	10. 30	17. 23	·1076					
10. 28	11. 0	23. 55	·1058					
10. 40	9. 35							
11. 3	12. 0							
11. 34:	6. 5							
13. 0	12. 5							
20. 5	12. 45							
21. 2	16. 0							
21. 15	17. 0							
21. 27	15. 30							
21. 47	15. 40							

Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
Apr. 19								
h m	° ′ ″	h m		h m		h m	c	°
22. 51:	22. 12. 5							
23. 51	15. 0							
Apr. 20		Apr. 20		Apr. 20		Apr. 20		
0. 0	22. 15. 30	0. 0	·1059	0. 50:	·01762	1. 40	56 ·6	57 ·3
1. 16	18. 20	1. 44	·1058	1. 49	·01697	3. 40	57 ·5	58 ·0
3. 3	18. 0	3. 20	·1062	6. 15	·01243	9. 40	57 ·0	59 ·0
3. 37	15. 30	4. 28	·1081	9. 27	·01170	21. 40	49 ·8	53 ·0
4. 13	14. 40	4. 40	·1070	12. 6	·01260			
4. 21	15. 30	5. 28	·1076	13. 16	·01380			
4. 43	14. 10	5. 43	·1092	13. 35	·01348			
5. 30	14. 0	6. 15	·1075	16. 26	·01770			
5. 44	13. 0		***		·01740			
6. 40	12. 45	8. 0	·1078	19. 0	·01760			
7. 30	13. 0		***	21. 30	·01710			
8. 0	11. 55	9. 56	·1070		·01578			
8. 35	9. 30	10. 44	·1084	23. 59	·01510			
9. 20	11. 10		***					
10. 11	5. 55	11. 35	·1076					
10. 27	22. 7. 15	11. 44	·1066					
11. 18	21. 57. 55	11. 50	·1076					
	***		***					
11. 52	22. 2. 55	12. 30	·1058					
12. 13	21. 59. 45	12. 50	·1070					
	***		***					
12. 58	22. 3. 0	13. 55	·1062					
13. 25:	13. 0	14. 38	·1090					
13. 50:	9. 35		***					
14. 13	13. 35	15. 25	·1080					
15. 17:	8. 50	19. 34	·1082					
15. 47	10. 0	22. 10	·1067					
16. 10	8. 30	23. 59	·1054					
	***							
19. 10	9. 5							
21. 47	13. 5							
22. 10	15. 0							
22. 55	15. 10							
23. 40	16. 30							
23. 58	18. 20							
Apr. 21		Apr. 21		Apr. 21		Apr. 21		
0. 18	22. 18. 20	0. 8	·1052	1. 30	·01440	1. 40	52 ·5	53 ·5
1. 32	22. 0	1. 43	·1060	3. 47:	·01295	3. 40	54 ·0	55 ·0
	***	3. 37	·1079	9. 1	·00647	9. 40	54 ·5	57 ·5
4. 14	18. 25	7. 15	·1089		(†)	21. 40	51 ·5	54 ·0
6. 30	17. 35	10. 50	·1090	16. 7	·00640			
8. 52	19. 15	11. 14	·1101	18. 33:	·00973			
	***	11. 30	·1092	22. 30	·01220			
10. 8	22. 10		***		·01087			
12. 3	20. 55	14. 47	·1104	23. 45	·01090			
13. 43	24. 5	14. 58	·1094	23. 59	·01032			
14. 16	26. 45		***					
14. 45	25. 0	15. 30	·1100					
	***	16. 10	·1077					
15. 28	24. 45		***					
15. 58:	20. 0	20. 50	·1076					
16. 48	24. 30		***					
	***	22. 13	·1058					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (:) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

April 21. Vertical Force Magnet. The spot of light was off the sheet from 9^h to 16^h.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 21		Apr. 21						
h m	° ′ ″	h m		h m		h m	°	°
21. 46	22. 32. 0	23. 45	·1060					
	***	23. 59	·1066					
22. 20	34. 30							
	***							
22. 58	33. 40							
	***							
23. 58	36. 30							
		Apr. 22		Apr. 22		Apr. 22		
		0. 0	·1066	0. 30	·00988	1. 40	54	·0 56 ·5
		0. 13	·1060	2. 46	·00850	3. 40	55	·0 57 ·5
		0. 30	·1074	3. 53	·00590	9. 40	55	·0 57 ·5
		0. 46	·1068		·00680	21. 40	50	·5 52 ·5
		1. 8	·1074		***			
		1. 27	·1065	4. 43	·00607			
		1. 45	·1073	8. 17	·00660			
		2. 55	·1072	10. 0	·00660			
		3. 18	·1062	10. 20	·00605			
		4. 4	·1082	16. 8	·01222			
		4. 50	·1076	18. 31	·01415			
		5. 11	·1100		·01260			
			***	19. 43	·01325			
		6. 0	·1080	23. 59	·01295			
		6. 13	·1090					
		6. 24	·1078					
		7. 16	·1073					
		7. 30	·1079					
		7. 43	·1070					
		8. 50	·1087					
		9. 35	·1075					
		9. 50	·1092					
		10. 15	·1068					
		10. 53	·1083					
		11. 30	·1073					
		11. 45	·1081					
			***					
		15. 30	·1078					
		16. 50	·1088					
		17. 45	·1072					
		18. 30	·1091					
		20. 45	·1088					
		21. 15	·1072					
			***					
		23. 0	·1058					
		23. 59	·1067					
Apr. 23		Apr. 23		Apr. 23		Apr. 23		
	(†)	0. 0	·1066	1. 40	·01296*	1. 40	51	·0 53 ·0
6. 6	22. 17. 45		(†)		(†)	3. 40	51	·0 54 ·0
7. 14.	11. 0	6. 22	·1016	3. 40	·02387*	9. 40	54	·5 55 ·5
7. 31	22. 6. 0	6. 37	·1020		(†)	22. 40	49	·0 52 ·5
8. 28	21. 56. 25	7. 2	·1008	6. 21	·02322			
8. 47	22. 3. 0	7. 15	·1019	7. 43	·02410			
8. 57	1. 0	7. 43	·1008	11. 10	·02230			
9. 23	6. 5	8. 8	·1021	14. 20	·02261			
9. 33	4. 30	8. 47	·1000	17. 36	·02362			
9. 50	7. 50	9. 0	·1009		(†)			
10. 16	7. 0	9. 28	·1002	22. 40	·02576*			
					(†)			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 23		Apr. 23						
h m	° ′ ″	h m		h m		h m	°	°
10. 28	22. 9. 35	9. 50	·1013					
10. 38	9. 5	10. 5	·1005					
10. 55	11. 45	10. 20	·1014					
11. 27	8. 20	10. 30	·1010					
12. 45	11. 0	10. 54	·1018					
13. 25	9. 50	11. 15	·1014					
13. 45.	16. 0		***					
14. 3	11. 20	13. 37	·1013					
16. 2	9. 0	14. 0	·1016					
16. 17	10. 50	14. 23	·1013					
16. 55	7. 50		***					
	(†)	17. 11	·1015					
20. 35	5. 0		(†)					
20. 40	7. 15	20. 21	·1004					
20. 46	6. 30	21. 10	·0992					
21. 3	9. 5	21. 17	·0997					
21. 8	7. 50	21. 32	·0986					
23. 59	8. 30	22. 5	·0998					
		22. 17	·0998					
Apr. 24		Apr. 24		Apr. 24		Apr. 24		
0. 0	22. 11. 40	0. 8	·0998		(†)	8. 0	52	·5 53 ·0
1. 43	14. 25	3. 45	·1014	8. 0	·02138*	21. 40	45	·8 47 ·0
	***	4. 10	·1022		(†)			
5. 30	12. 25	4. 37	·1012	21. 40	·01913*			
6. 5	12. 30	6. 36	·1024		(†)			
	***	11. 30	·1024					
9. 2	10. 0	12. 12	·1040					
9. 47	11. 5	13. 0	·1020					
11. 34	11. 25	13. 16	·1031					
11. 50	14. 50	14. 4	·1016					
11. 57	13. 30	15. 12	·1026					
12. 10	16. 0	16. 25	·1016					
12. 25	11. 30	18. 0	·1024					
12. 43	15. 0	20. 12	·1020					
13. 0	12. 0	22. 0	·0998					
13. 17	19. 15	22. 57	·1000					
13. 58	10. 0	23. 59	·1000					
14. 23	8. 20							
14. 54	10. 35							
15. 31	7. 5							
	***							
16. 15	11. 20							
	***							
17. 20	9. 0							
	***							
21. 50	7. 0							
22. 33	8. 0							
22. 43	10. 0							
23. 0	9. 40							
23. 59	12. 45							
Apr. 25		Apr. 25		Apr. 25		Apr. 25		
0. 15	22. 13. 30	0. 0	·1021	1. 4	·02766	1. 40	48	·5 50 ·5
1. 16	16. 5	4. 30	·1022	2. 53	·02570	3. 40	49	·0 51 ·0
2. 45	15. 10	4. 45	·1032	3. 0	·02560	9. 40	48	·0 51 ·0
3. 27	13. 45	5. 9	·1023	6. 31	·02525	21. 40	45	·5 49 ·0
9. 43	11. 50		***	11. 23	·02310			
9. 49	12. 55	6. 15	·1038	14. 8	·02413			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

April 23. The magnet was found resting on the copper damper, and in consequence the observations made on April 22, have not been used.

April 23, 24, 25. Vertical Force Magnet. The spot of light was off the sheet from April 23^{d}. 17^{h}. till April 25^{d}. 1^{h}.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
Apr.25		Apr.25		Apr.25			°	°
h m	° ′ ″	h m		h m				
10. 30	22. 10. 35	6. 30	·1032	15. 26	·02530			
10. 14	10. 15		***	15. 46	·02476			
11. 29:	8. 45	7. 55	·1036	21. 38	·02466			
12. 6	11. 0	9. 30	·1030	23. 59	·02366			
12. 35	10. 30	9. 45	·1036					
	***	10. 35	·1030					
13. 33	17. 35	11. 15	·1042					
14. 10	6. 50	11. 30	·1036					
16. 8	13. 0	12. 20	·1042					
16. 23	11. 30	13. 5	·1036					
16. 45	14. 30	14. 0	·1052					
17. 44	10. 30	14. 40	·1034					
	***		***					
20. 47	8. 0	16. 35	·1036					
	***	16. 55	·1033					
22. 20	8. 30	17. 30	·1038					
23. 59	13. 30	19. 54	·1036					
		22. 2	·1007					
		23. 59	·1004					
Apr.26		Apr.26		Apr.26		Apr.26		
0. 5	22. 13. 50	0. 0	·1004	2. 5	·01310	1. 40	49 ·5	51 ·0
1. 43	16. 0	4. 8	·1020	3. 12	·01156	3. 40	52 ·0	53 ·0
	***	4. 15	·1024	4. 50	·01242	9. 40	54 ·0	55 ·0
8. 4	9. 10	4. 30	·1019	7. 5	·01220	21. 40	47 ·5	48 ·5
8. 50	10. 30	6. 45	·1034	10. 2	·01265			
11. 16	9. 40	9. 15	·1023	14. 5:	·01540			
11. 32:	8. 0	18. 30	·1036	17. 26	{·02032			
12. 18	9. 40	19. 45	·1022		{·01980			
12. 45	9. 35	20. 0	·1028	23. 59	·01970			
13. 5	12. 25	22. 45	·1007					
13. 45	10. 35	23. 59	·1006					
15. 35	9. 30							
18. 40	10. 0							
20. 33	6. 5							
	***							
21. 44	6. 10							
23. 59	10. 40							
Apr.27		Apr.27		Apr.27		Apr.27		
0. 46	22. 11. 30	0. 0	·1006	0. 40	·02015	1. 40	49 ·3	50 ·4
1. 30	13. 0		***	2. 40:	·01818	3. 40	52 ·8	54 ·0
1. 32	14. 45	3. 15	·1007	4. 25	·01412	9. 40	56 ·0	56 ·0
1. 52	16. 25	5. 24	·1026	5. 26	·01452	21. 40	48 ·0	50 ·0
3. 43	15. 15	7. 9	·1022	6. 28	·01417			
6. 0	11. 30	7. 20	·1027	8. 26	·01428			
7. 17	10. 0	7. 34	·1022	8. 35	·01490			
9. 2	11. 15	15. 30	·1022	9. 10	·01480			
13. 2	9. 0	19. 45	·1035	13. 20	·01670			
13. 25	8. 30	21. 54	·1026	16. 25:	·01820			
15. 22	11. 0	23. 59	·1003	20. 7	{·01250			
19. 5	10. 0				{·01213			
19. 34	8. 10			21. 54	·02108			
19. 55	9. 40			23. 0	·02125			
	***			23. 59	·02056			
21. 17	6. 15							
23. 7	7. 30							
23. 59	9. 35							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
Apr.28		Apr.28		Apr.28		Apr.28		
h m	° ′ ″	h m		h m		h m		
0. 32	22. 11. 30	0. 0	·1003	0. 32	·01[illegible]5	1. 40	55 ·5	57 ·0
2. 35	14. 0	1. 37	·0994	1. 54:	·018[illegible]	3. 40	59 ·0	61 ·0
7. 35	10. 0	5. 0	·1010	2. 53	·01540	10. 15	58 ·0	60 ·0
		5. 8	·1015	4. 20	{·01570	21. 40	49 ·5	53 ·0
16. 46	8. 50	5. 18	·1005		{·01656			
18. 10	9. 45	6. 45	·1016	8. 15	·01965			
	***	8. 8	·1011	10. 46	·02060			
19. 41:	7. 15	8. 20	·1018	13. 28	{·02250			
19. 53	9. 20	14. 40	·1030		{·02231			
	***	22. 0	·1032	22. 25	·02152			
22. 53	7. 10	23. 59	·1010	23. 59	·02167			
23. 59	9. 30							
Apr.29		Apr.29		Apr.29		Apr.29		
0. 5	22. 10. 0	0. 0	·1010	0. 20	·02170	1. 40	52 ·3	55 ·0
2. 31	15. 0	2. 45	·1018	2. 31	·02166	3. 40	54 ·0	56 ·5
12. 1	10. 0	3. 15	·1014	8. 5	·02070	9. 40	54 ·0	55 ·4
12. 15	11. 35	3. 24	·1022	12. 45	·02080	21. 40	50 ·0	54 ·0
12. 30	10. 30	3. 45	·1018	15. 44	·02130			
12. 36	11. 40		***	16. 0	·02085			
13. 25	6. 15	5. 11	·1033	16. 44	·02117			
14. 0	6. 55		***	19. 57	·02110			
14. 12	6. 15	6. 0	·1028	23. 40	·01988			
15. 3	14. 0	11. 55	·1030					
	***	12. 30	·1035					
16. 9	8. 55	14. 33	·1019					
	***		***					
16. 44	10. 30	16. 10	·1032					
	***	16. 25	·1022					
17. 23	8. 0	17. 15	·1028					
	***	21. 15	·1017					
17. 54	8. 50	23. 0	·0996					
	***	23. 38	·0996					
18. 21	7. 15							
	***							
21. 6	7. 25							
23. 35	12. 30							
Apr.30		Apr.30		Apr.30		Apr.30		
0. 0	22. 12. 0	0. 0	·1002	0. 0	·01972	1. 40	57 ·0	57 ·5
1. 35	12. 30	1. 33	·1005	1. 34:	·01825	3. 40	60 ·5	61 ·0
2. 8	13. 50	2. 9	·1013	3. 19	·01526	9. 40	64 ·0	64 ·0
4. 13	10. 0	2. 30	·1008	7. 55	·01572	23. 10	55 ·0	59 ·0
8. 0	9. 15	3. 45	·1014	11. 26	·01762			
8. 30	10. 0	4. 8	·1008	13. 30:	·01920			
8. 55	8. 50	5. 0	·1016	16. 23	{·02270			
9. 46	10. 30	5. 15	·1010		{·02231			
10. 44	9. 15	6. 22	·1003	21. [illegible]	·02180			
11. 1	10. 35	7. 9	·1012	23. 3[illegible]	·02210			
12. 30	9. 40	8. 35	·1004					
16. 54	10. 10	10. 0	·1012					
17. 8	10. 30	10. 20	·1007					
19. 15	9. 20	19. 15	·1025					
19. 25	7. 45	21. 0	·1018					
19. 53	8. 30	22. 2	·1003					
20. 43	4. 55	23. 30	·0994					
20. 56	6. 25							
21. 10	5. 30							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 30								
h m	° ′ ″	h m		h m		h m		
21. 34	22. 7. 15							
22. 43	7. 55							
23. 28	11. 10							
May 1		May 1		May 1		May 1		
0. 0	22. 11. 30	0. 0	·0990	0. 0	·02182	11. 40	64 ·0	65 ·5
1. 0	14. 15	0. 43	·0986	2. 8	·01940	21. 40	55 ·0	57 ·0
2. 32	15. 5	2. 50	·0999	4. 2	·01570			
4. 5	10. 5	3. 9	·0994	5. 58	·01618			
5. 36	11. 10	3. 19	·0998	7. 17	·01590			
6. 4	9. 45	3. 36	·0987		·01712			
6. 53	10. 45	3. 51	·0996	11. 15	·01918			
7. 36	8. 15	4. 4	·0991	12. 45	·02052			
9. 5	9. 50	4. 35	·0999	14. 31	·02288			
9. 32	9. 20	4. 56	·0996		·02252			
10. 28	10. 15	5. 12	·1004	21. 24	·02120			
13. 32	9. 45	6. 2	·0990	23. 59	·01853			
14. 0	14. 50	6. 45	·1001					
14. 17	10. 0	7. 13	·0990					
14. 45	10. 0	8. 15	·1000					
15. 5	12. 15	12. 45	·1011					
16. 3	8. 20		***					
17. 19	8. 30	17. 45	·1030					
18. 8	5. 45	20. 24	·1022					
19. 38	5. 45	21. 30	·1026					
20. 17	3. 40	22. 11	·1018					
20. 51	5. 50	23. 30	·1016					
20. 58	4. 45							
21. 54	8. 50							
22. 13	8. 0							
23. 30	12. 30							
23. 58	12. 15							
May 2		May 2		May 2		May 2		
1. 46	22. 16. 0	0. 30	·1010	1. 5	·01770	1. 40	59 ·0	62 ·0
	***	1. 50	·1020	2. 13	·01570	3. 40	63 ·0	64 ·5
3. 23	18. 0	2. 14	·1010	3. 35	·01430	9. 40	62 ·0	65 ·0
	***	3. 45	·1014	6. 47	·01465	21. 40	56 ·0	59 ·0
4. 45	11. 30	3. 55	·1008	8. 49	·01584			
5. 0	13. 30	4. 7	·1014	9. 58	·01585			
5. 30	12. 45	4. 15	·1010	10. 27	·01552			
5. 58	14. 0	4. 50	·1020	14. 40	·01817			
6. 46	11. 45		***	14. 55	·01797			
7. 13	13. 0	5. 15	·1042	15. 53	·02105			
7. 26	11. 20		***		·02178			
7. 36	11. 55	5. 45	·1024	17. 5	·02122			
8. 8	3. 0		***	17. 35	·02122			
8. 21	4. 50	6. 9	·1038	17. 48	·02080			
8. 26	7. 0	6. 15	·1028	17. 59	·02097			
8. 27	5. 0	6. 20	·1036	18. 17	·02012			
8. 38	7. 15		***	18. 43	·02088			
8. 48	6. 0	6. 52	·1024	19. 8	·02010			
9. 31	22. 8. 35	6. 59	·1032		***			
9. 53	21. 58. 0	7. 2	·1026	22. 28	·02138			
10. 25	22. 2. 40		***		***			
10. 37	21. 55. 20	7. 38	·1042	23. 59	·02102			
10. 49	22. 1. 30	7. 52	·1024					
10. 55	0. 40	7. 58	·1030					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 2		May 2						
h m	° ′ ″			h m		h m		
11. 12	22. 3. 0	8. 4	·1020					
11. 26	0. 15	8. 15	·1030					
11. 43	22. 4. 30	8. 17	·1022					
12. 15	21. 58. 30	8. 23	·1027					
	***	8. 28	·1016					
12. 44	22. 1. 30	8. 33	·1020					
13. 14	22. 0. 0	8. 46	·1008					
13. 34	21. 56. 30	9. 24	·1018					
13. 54	59. 35	9. 40	·1014					
13. 56	21. 58. 15	10. 15	·1035					
14. 17	22. 0. 0	10. 33	·1023					
14. 33	21. 56. 30	10. 47	·1040					
14. 45	59. 30	11. 27	·1020					
15. 5	21. 53. 15	11. 40	·1027					
15. 33	22. 8. 45		***					
15. 52	4. 45	12. 15	·1006					
	***	12. 30	·1017					
16. 20	7. 35	12. 43	·1012					
16. 47	4. 30	13. 20	·1022					
17. 16	5. 20	14. 6	·1003					
17. 44	14. 30	14. 47	·1042					
17. 54	11. 20	15. 27	·0984					
18. 14	23. 0	15. 55	·1008					
18. 23	16. 40	16. 4	·1005					
18. 37	20. 0	16. 16	·1010					
18. 45	28. 45	16. 30	·1006					
19. 9	13. 0	17. 16	·1014					
19. 20	11. 30	17. 26	·1005					
	***	17. 32	·1015					
19. 40	16. 45		***					
	***	17. 45	·1014					
20. 15	10. 0	17. 57	·0990					
	***		***					
20. 37	13. 30	18. 6	·0994					
	***	18. 25	·0964					
20. 54	9. 30	18. 33	·0976					
	***	18. 39	·0968					
21. 5	13. 45	19. 0	·1021					
21. 10	9. 30	19. 7	·1023					
21. 13	14. 25	19. 18	·1018					
21. 14	10. 10	19. 27	·1027					
	***	19. 36	·1016					
21. 22	8. 10	19. 50	·1015					
	***	20. 15	·0979					
21. 34	15. 30	20. 29	·1004					
21. 36	12. 30		***					
	***	20. 58	·0996					
22. 45	15. 5	21. 0	·1006					
22. 48	17. 30	21. 10	·0993					
	***	21. 15	·1005					
23. 36	17. 30	21. 17	·0987					
	***	21. 37	·0989					
23. 46	20. 45	21. 46	·0996					
	***	21. 50	·0984					
		22. 0	·0992					
		22. 9	·0981					
		22. 15	·0986					
		22. 23	·0979					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
h m	° ′ ″	May 2 h m		h m		h m	°	°
		22. 26	·0988					
		22. 33	·0984					
		22. 35	·0988					
		22. 43	·0984					
		23. 0	·0990					
		23. 24	·0988					
		23. 32	·1001					
			***					
		23. 45	·0986					
		23. 54	·1002					
		23. 57	·0982					
		23. 59	·0986					
May 3		May 3		May 3		May 3		
0. 6	22. 18. 50	0. 4	·0976	1. 0	·02092	1. 40	59 ·0	61 ·0
	***	0. 8	·0986	2. 5	·02070	3. 40	61 ·0	62 ·5
0. 15	17. 5	0. 10	·0976	2. 9	·02008	9. 58	61 ·0	63 ·5
	***	0. 16	·0986	2. 53	·01963	21. 40	57 ·0	58 ·5
0. 34	20. 0	0. 20	·0980	3. 33	·02000			
	***		***	4. 8	·01948			
0. 46	17. 50	0. 47	·1003	4. 17	·01970			
	***	1. 0	·0989	4. 51	·01870			
1. 45	15. 45	1. 43	·0994	5. 50	·01730			
2. 9	21. 50	1. 45	·0990	6. 3	·01758			
2. 36	22. 45	2. 10	·1028	6. 41	·01673			
2. 45	20. 50	2. 25	·1010	7. 45	·01692			
2. 51	24. 0	2. 40	·1024	9. 18	·01620			
2. 58	20. 30	2. 46	·1004	9. 34	·01535			
3. 3	21. 30	3. 33	·1019	9. 55	·01590			
3. 31	14. 0	3. 40	·1040	11. 23	·01610			
3. 56	12. 30	4. 14	·1000	13. 15	·01645			
4. 6	15. 0	4. 25	·1066	14. 14	·01600			
4. 18	2. 45	4. 46	·1004	14. 55	·01623			
4. 28	10. 0	5. 1	·1000	16. 25	·01775			
5. 2	13. 0		***	17. 8	·01747			
5. 13	9. 20	5. 25	·1032	18. 40	·01928			
	***	5. 40	·1014	20. 5	·02022			
5. 40	16. 30	5. 44	·1021		·01885			
6. 53	2. 30	5. 55	·1004	21. 50	·01953			
7. 2	22. 4. 0	6. 9	·1069	23. 59	·01845			
7. 20	21. 58. 10	6. 23	·1033					
7. 28	59. 50	6. 30	·1046					
7. 32	58. 15	6. 53	·1027					
7. 46	21. 58. 10	6. 59	·1037					
8. 7	22. 5. 30	7. 24	·1041					
8. 18	2. 20	7. 39	·1022					
	***		***					
8. 42	3. 0	8. 0	·1027					
8. 55	8. 0	8. 20	·1002					
9. 13	4. 5		***					
9. 27	19. 45	8. 50	·1002					
9. 58	7. 15	9. 5	·0988					
10. 14	9. 35	9. 21	·1018					
10. 42	7. 0	9. 36	·0994					
10. 55:	2 5	10. 0	·1018					
11. 18	7. 10	10. 27	·1006					
11. 32	8. 0		***					
11. 40	3. 45	11. 0	·1026					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 3		May 3				May 4		
h m	° ′ ″	h m		h m		h	°	°
11. 52	22. 7. 5		***					
12. 6	5. 0	11. 34	·1006					
	***	11. 54	·1045					
12. 37	7. 10	12. 4	·1032					
	***	12. 15	·1034					
13. 30	4. 0	12. 25	·1025					
13. 54	10. 30	12. 27	·1024					
14. 18	13. 0	12. 44	·1012					
14. 44	19. 0		***					
15. 45:	6. 30	13. 42	·1012					
16. 13	8. 50	13. 55	·0992					
16. 29	13. 0		***					
17. 2	15. 0	14. 30	·1000					
17. 17	12. 0	15. 15	·1032					
17. 28	13. 30	16. 27	·1010					
17. 47	22. 11. 30	17. 1	·1029					
18. 0	21. 58. 0	17. 33	·1028					
18. 13	22. 8. 0	17. 38	·1020					
18. 29	6. 0	17. 41	·1028					
18. 38	9. 0	17. 50	·1016					
	***	18. 40	·1008					
19. 50	5. 40		***					
	***	19. 34	·1014					
20. 1	9. 15		***					
20. 4	6. 0	20. 56	·0978					
	***		***					
20. 15	5. 30	22. 31	·1002					
20. 20	8. 0	22. 37	·0995					
20. 32	6. 0	22. 50	·1007					
20. 49	10. 0	23. 8	·0994					
	***	23. 37	·1003					
22. 37	10. 30	23. 45	·0998					
22. 52	13. 30							
	***							
23. 16	12. 20							
23. 49	15. 40							
May 4		May 4		May 4		May 4		
0. 7	22. 14. 0	0. 8	·0986	0. 30	·01842	1. 40	60 ·0	62 ·5
	***	1. 0	·1007		***	3. 40	61 ·0	63 ·0
0. 31	13. 0	1. 27	·1008	3. 19	·01805	9. 40	60 ·0	62 ·5
	***	1. 46	·1002		***	21. 40	54 ·0	55 ·0
0. 57	16. 25	2. 35	·1022	4. 25:	·01610			
	***	3. 4	·1033		***			
1. 11	13. 0	4. 16	·1014	5. 45	·01460			
	***	4. 45	·1030		***			
2. 8	17. 50	5. 2	·1021	9. 8	·01382			
2. 19	15. 30	5. 10	·1030	10. 58	·01415			
	***	5. 23	·1032	15. 30	·01785			
2. 43	17. 20	5. 27	·1027	17. 8	·02065			
3. 3	6. 0	5. 30	·1036		·02021			
	***	5. 50	·1013	18. 13	·02028			
3. 36	10. 30	6. 15	·1026		·01900			
	***	6. 22	·1020	20. 5	·02000			
3. 44	13. 55	6. 38	·1032	23. 5	·01913			
	***	6. 40	·1044	23. 59	·01792			
4. 7	12. 50	6. 46	·1038					
4. 17	8. 10		***					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 4		May 4		May 5		May 5		
h m	° ′ ″	h m		h m		h m		
4. 28	22. 11. 35	7. 9	·1054	0. 55	22. 17. 45	0. 47	·1010	
4. 38	8. 5	7. 43	·1023	1. 36	13. 0	1. 20	·0980	
4. 50	7. 50	8. 0	·1040	2. 12	14. 30			
5. 17	15. 0	8. 20	·1038			1. 35	·1000	
5. 28	12. 40	8. 39	·1024	4. 50	8. 35	2. 38	·1002	
5. 32	14. 0	8. 49	·1031	5. 16	5. 30	3. 30	·0987	
5. 54	10. 40	9. 32	·1020	5. 48	7. 10	3. 50	·0997	
6. 7	11. 30	10. 5	·1032	6. 23	4. 25	4. 4	·0991	
6. 18	7. 30	10. 35	·1023	7. 9	4. 10	4. 55	·1010	
6. 24	8. 35	11. 25	·1026	7. 47	6. 40	4. 57	·1003	
6. 45	5. 0	12. 20	·1044	13. 1	10. 30	5. 14	·1013	
	***			13. 34	12. 5	5. 18	·1006	
7. 5	6. 20	13. 15	·1026	14. 22	10. 30	5. 25	·1014	
	***	14. 0	·1045	14. 27	11. 30	5. 27	·1008	
7. 30	10. 35	14. 50	·1008	14. 31	10. 15	5. 55	·1008	
7. 52	4. 20	15. 15	·1009	15. 17	11. 25	6. 3	·1001	
8. 21	9. 10	15. 39	·1025	15. 29	10. 30	6. 50	·1012	
8. 45	6. 0	16. 1	·1018	15. 40	13. 0	7. 45	·1010	
9. 7	9. 0	16. 26	·1026	16. 45	11. 0	8. 8	·1002	
9. 45	9. 15	16. 46	·1020	16. 50	12. 0	9. 43	·1000	
10. 15	13. 10	17. 5	·1030	17. 7	10. 30	15. 15	·1014	
12. 15	9. 10	17. 28	·1012	17. 52	16. 0	15. 25	·1010	
13. 5	14. 40	18. 5	·1012	18. 13	15. 20	15. 35	·1015	
14. 24	2. 0	18. 10	·1006	18. 28	10. 5	15. 45	·1006	
	***	18. 23	·1016		***	19. 15	·1001	
15. 44	13. 35			19. 46	6. 30	16. 45	·1010	
	***	18. 55	·1016		***	17. 5	·1008	
16. 31	7. 0	19. 25	·0985	20. 8	2. 30		***	
17. 1	13. 30	19. 40	·0995		***	18. 15	·1017	
	***	19. 50	·0988	20. 52	9. 5		***	
17. 41	14. 0	20. 15	·1014		***	18. 23	·1018	
17. 50	12. 0	20. 50	·0995	21. 13	6. 10		***	
18. 4	13. 55		***		***	21. 5	·1000	
18. 9	9. 55	20. 58	·1000	21. 38	7. 30		***	
18. 25	12. 30	21. 0	·0988		***	22. 40	·0972	
	***		***	22. 13	11. 30	23. 10	·0988	
18. 48	9. 50	21. 15	·0994		***	23. 18	·0978	
	***		***	22. 32	9. 20	23. 30	·0995	
19. 13	17. 40	21. 25	·0992		***	23. 33	·0989	
	***	21. 38	·0996	23. 8	14. 15	23. 42	·0996	
19. 58	7. 0	22. 24	·0980	23. 24	13. 10	23. 49	·0988	
20. 13	9. 10	22. 31	·0992	23. 44	15. 30			
20. 18	8. 10		***	23. 58	15. 30			
	***	22. 40	·0988					
20. 44	12. 0	22. 45	·0978					
	***		***					
21. 9	6. 55	23. 5	·0993					
21. 22	10. 25	23. 10	·0984					
	***	23. 30	·0998					
21. 29	8. 50							
21. 36	11. 0							
	***							
22. 47	10. 0							
23. 0	13. 0							
23. 45	13. 45							
May 5		May 5		May 5		May 5		
0. 8	22. 14. 20	0. 30	·0998	0. 43	·01715	1. 40	58 ·0	58 ·7

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 5		May 5		May 5		May 5		
h m	° ′ ″	h m		h m		h m		
0. 55	22. 17. 45	0. 47	·1010	2. 5	·01440	3. 43	58 ·7	58 ·3
1. 36	13. 0	1. 20	·0980	7. 13	·01768	6. 4	58 ·0	58 ·3
2. 12	14. 30			7. 53	·01780	21. 43	58 ·0	58 ·3
	***			9. 17	·01870			
		1. 35	·1000	11. 28	·01[illegible]			
4. 50	8. 35	2. 38	·1002					
5. 16	5. 30	3. 30	·0987		·02237			
5. 48	7. 10	3. 50	·0997	14. 7	·02235			
6. 23	4. 25	4. 4	·0991	18. 14	·02[illegible]			
7. 9	4. 10	4. 55	·1010	21. 3	·02[illegible]			
7. 47	6. 40	4. 57	·1003	23. [illegible]	·02[illegible]			
13. 1	10. 30	5. 14	·1013					
13. 34	12. 5	5. 18	·1006					
14. 22	10. 30	5. 25	·1014					
14. 27	11. 30	5. 27	·1008					
14. 31	10. 15	5. 55	·1008					
15. 17	11. 25	6. 3	·1001					
15. 29	10. 30	6. 50	·1012					
15. 40	13. 0	7. 45	·1010					
16. 45	11. 0	8. 8	·1002					
16. 50	12. 0	9. 43	·1000					
17. 7	10. 30	15. 15	·1014					
17. 52	16. 0	15. 25	·1010					
18. 13	15. 20	15. 35	·1015					
18. 28	10. 5	15. 45	·1006					
	***	19. 15	·1001					
19. 46	6. 30	16. 45	·1010					
	***	17. 5	·1008					
20. 8	2. 30		***					
	***	18. 15	·1017					
20. 52	9. 5		***					
	***	18. 23	·1018					
21. 13	6. 10		***					
	***	21. 5	·1000					
21. 38	7. 30		***					
	***	22. 40	·0972					
22. 13	11. 30	23. 10	·0988					
	***	23. 18	·0978					
22. 32	9. 20	23. 30	·0995					
	***	23. 33	·0989					
23. 8	14. 15	23. 42	·0996					
23. 24	13. 10	23. 49	·0988					
23. 44	15. 30							
23. 58	15. 30							
May 6		May 6		May 6		May 6		
0. 38	22. 16. 0	1. 4	·1002	0. 30	·02010	1. 40	58 ·7	58 ·3
0. 58	14. 30	3. 20	·1000	4. 10	·01840	3. 40	58 ·0	58 ·3
1. 9	15. 45	4. 35	·1017	6. 28	·01662	6. 40	58 ·0	58 ·3
2. 20	15. 45	4. 50	·1012	7. 0	·01[illegible]	21. 42	58 ·0	58 ·3
3. 20	15. 0		***	10. 5	·01515			
6. 3	9. 0	5. 50	·1024	14. 43	·01754			
6. 31	7. 10		***		·01[illegible]			
6. 53	1. 20	6. 32	·1013	17. 38	·01[illegible]			
7. 10	4. 40	6. 47	·1015	18. 44	·01[illegible]			
8. 42	0. 0	7. 2	·1040	22. 8	·01900			
9. 14	8. 20	8. 0	·1022	23. [illegible]	·01862			
9. 22	9. 30	8. 5	·1026					
9. 39	8. 40	8. 30	·1017					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 6		May 6						
h m	° ′ ″	h m		h m		h m	°	°
9.47	22. 5.25	8.53	·1024					
10.43	7.35	9.10	·1018					
10.56	12.30	10.15	·1036					
11.12	10. 0	10.45	·1022					
	***	10.50	·1032					
11.23	11. 0	23.30	·1020					
11.26	9.30	23.49	·1029					
12. 9	7.50	23.59	·1023					
	***							
12.58	8.20							
	***							
13.56	14.35							
14.22	11.50							
15.21	14. 5							
16.44	8.20							
18.18	7.25							
	***							
19. 3	5.20							
	***							
20. 0	9. 0							
	***							
20.52	6.45							
	***							
22.55	8.55							
23.55	12.30							
May 7		May 7		May 7		May 7		
0. 8	22. 13. 15	1. 15	·1010	0. 20	·01863	1. 40	54·2	55·5
2. 15	12.55	2. 0	·1021	3. 59	·01768	3. 40	55·5	56·5
2. 30	17. 0	2. 19	·1010	4. 55	·01712	10. 8	50·0	53·5
2. 38	17. 40	3. 4	·1028	8. 28	·01808			
2. 58	13. 10	4. 30	·1022	8. 44	·01760			
3. 16	12. 15		***	11. 13	·01942			
3. 31	10. 45	5. 29	·1026	13. 34	·01818			
	***	5. 40	·1020	16. 5	·01905			
4. 0	14. 0		***	20. 5	·01913			
4. 18	13. 0	6. 53	·1030	23. 59	·01830			
4. 57	14. 0	7. 30	·1026					
5. 27	4. 10	7. 50	·1044					
6. 30	11. 35	8. 20	·1035					
7. 20	8. 0	8. 30	·1066					
7. 37	2. 15	8. 50	·1030					
8. 17	9. 0		***					
8. 22	8. 5	9. 9	·1030					
8. 34	12. 40	9. 19	·1023					
8. 55	5. 30	9. 38	·1028					
	***	10. 40	·1020					
9. 8	10. 0	11. 15	·1030					
	***	11. 50	·1026					
9. 30	3. 0	12. 14	·1034					
10. 5	3. 20	12. 25	·1026					
10. 47	11. 10	13. 0	·1065					
11. 6	9. 0	13. 49	·1000					
11. 23	12. 45	14. 0	·0997					
11. 53	9. 0	14. 45	·1022					
12. 7	9. 10	14. 53	·1018					
12. 22	16. 55	16. 4	·1033					
12. 32	22. 17. 0	16. 30	·1019					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 7		May 7						
h m	° ′ ″	h m		h m		h m	°	°
13.20	21. 56. 20	17. 11	·1022					
14.22:	22. 15. 35	17. 40	·1049					
	***		***					
14.54	10. 45	18. 30	·1043					
	***	18. 44	·1034					
15.56	6. 30	18. 55	·1041					
16. 4	8. 30	19. 34	·1026					
16.45	11. 0		***					
17.17	9. 25	20. 55	·1016					
	***	21. 0	·1009					
18.17	7. 30	21. 9	·1013					
	***		***					
18.42	7. 40	21. 41	·1001					
20. 0	4. 0		***					
	***	22. 57	·0996					
21. 27	6. 50	23. 59	·1004					
22. 32	12. 30							
23. 59	16. 30							
May 8		May 8		May 8		May 8		
0. 34	22. 16. 35	0. 15	·1006	0. 30	·01809	0. 5	48·0	50·0
	***	1. 0	·1007	4. 6	·01840	8. 5	52·0	54·0
1. 37	18. 0	1. 16	·1001	7. 26	·01473	21. 40	47·0	49·8
3. 0	16. 50	2. 32	·1025	10. 14	·01175			
3. 33	14. 30	3. 20	·1017	11. 36	·01175			
4. 0	10. 50	3. 45	·1044	13. 32	·01252			
5. 1	12. 0	4. 15	·1031	18. 32:	·01838			
6. 23	8. 10	5. 0	·1042	20. 28	·01936			
7. 3	8. 0	5. 15	·1034		·01843			
7. 20	0. 0	5. 55	·1040	23. 59	·01640			
7. 43:	3. 20		***					
7. 53	2. 0	6. 30	·1031					
8. 44	8. 20	6. 58	·1042					
9. 0	7. 35	7. 16	·1030					
	***	7. 30	·1050					
9. 55	8. 20	7. 45	·1034					
10. 16	4. 20	9. 45	·1028					
10. 40	8. 0	10. 0	·1042					
11. 5	9. 30	10. 11	·1034					
11. 34	7. 20	10. 46	·1028					
12. 13	8. 40	12. 0	·1032					
12. 48	8. 0	12. 53	·1022					
13. 19	16. 0	14. 38	·1035					
14. 0	11. 45	15. 30	·1029					
14. 44	11. 40		***					
15. 35	8. 45	19. 0	·1026					
	***	23. 59	·1010					
17. 56	10. 0							
19. 34	5. 35							
20. 22	5. 0							
23. 8	7. 30							
23. 58	10. 30							
May 9		May 9		May 9		May 9		
0. 10	22. 11. 30	1. 20	·1014	0. 30	·01610	1. 48	50·5	52·0
1. 30	14. 30	3. 30	·1024	2. 20:	·01532	3. 40	54·0	53·0
1. 51	13. 30	12. 30	·1027	5. 32:	·01242	9. 40	54·0	54·0
2. 56	14. 10	12. 56	·1024	10. 55:	·01170	21. 40	48·0	50·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 9		May 9		May 9				
h m	° ′ ″	h m		h m		h m		
6. 53	22. 9. 30	13. 17	·1031	15. 41:	·01335			
7. 53	9. 25	18. 0	·1026	23. 6:	·01757			
8. 15	8. 5	19. 38	·1034	23. 59	·01750			
9. 18	8. 30	23. 0	·1009					
9. 54	10. 0	23. 59	·1009					
11. 0	8. 0							
12. 43	10. 20							
13. 0:	12. 35							
13. 13	11. 50							
13. 31	18. 15							
14. 2	11. 0							
15. 30	9. 30							
16. 50	11. 20							
17. 27	10. 30							
18. 4	12. 45							
19. 36	7. 30							
21. 0	6. 30							
22. 28	8. 15							
23. 59	12. 25							
May 10		May 10		May 10		May 10		
0. 17	22. 13. 0	0. 15	·1012	0. 30	·01730	1. 40	51 ·0	53 ·0
2. 24	15. 50		***	2. 3:	·01610	3. 40	55 ·0	56 ·0
4. 0	14. 25	2. 23	·1019	3. 53	·01315	9. 40	57 ·0	57 ·7
6. 30	10. 25	3. 0	·1015	10. 47	·01438	21. 40	49 ·0	51 ·5
8. 23	8. 30	5. 4	·1024	14. 52:	·01718			
12. 35	9. 10	13. 0	·1030	18. 18	·02110			
13. 25:	13. 5	13. 34	·1040		·02064			
13. 52:	9. 55	14. 15	·1032	23. 0	·02028			
	***	14. 45	·1039	23. 59	·01932			
18. 40	9. 30	15. 40	·1030					
20. 14	4. 25	19. 1	·1034					
20. 57	6. 0	20. 53	·1016					
21. 4	7. 15	23. 59	·1007					
22. 23	7. 0							
23. 59	11. 0							
May 11		May 11		May 11		May 11		
0. 10	22. 12. 10	0. 45	·1010	0. 20	·01910	1. 40	54 ·0	56 ·0
0. 48	13. 45	1. 0	·1003	1. 53:	·01700	3. 40	58 ·7	59 ·5
3. 23	12. 20	4. 23	·1006	3. 17	·01410	9. 40	60 ·8	63 ·0
3. 33	11. 35	5. 50	·1016	4. 53	·01468	21. 40	50 ·0	52 ·0
5. 36	9. 20	5. 58	·1032	6. 32	·01480			
7. 55	9. 0	6. 4	·1026	6. 35	·01580			
8. 21	7. 30		***	7. 53	·01566			
9. 23	9. 25	7. 10	·1024	8. 53	·01631			
10. 12	8. 50		***	12. 15:	·01762			
10. 45	10. 45	8. 0	·1033	15. 48	·02195			
13. 44	10. 35	8. 4	·1028		·02164			
14. 8	11. 30	8. 14	·1036	22. 32	·02066			
14. 34	10. 45	9. 15	·1020	23. 59	·01947			
18. 47	9. 20		***					
	***	12. 45	·1026					
19. 22	7. 15	19. 55	·1033					
	***	22. 45	·1014					
19. 51	8. 35	23. 0	·1006					
	***	23. 8	·1010					
20. 8	7. 15	23. 58	·1000					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 11								
h m	° ′ ″	h m				h m		
20. 17	22. 8. 0							
21. 40	6. 50							
22. 18	6. 50							
	***							
23. 59	12. 50							
May 12		May 12		May 12		May 12		
0. 20	22. 14. 0	0. 0	·1004	0. 15	·01621	1. 40	55 ·8	57 ·4
1. 33	13. 50		***	1. 38:	·01762	3. 40	56 ·0	58 ·2
4. 23	10. 0	0. 45	·1010	3. 7	·01532	9. 40	58 ·5	59 ·7
5. 43	8. 40		***	4. 28	·01456	21. 40	53 ·5	55 ·5
7. 3	8. 55	1. 7	·1004	5. 16	·01630			
8. 13	8. 0	1. 15	·1012	8. 33	·01852			
10. 15	9. 30		***	11. 45	·01947			
10. 48	8. 30	3. 15	·1013	14. 12	·02158			
11. 17	9. 30	5. 53	·1026	14. 15	·02140			
13. 42	8. 10	6. 2	·1018	19. 21	·02165			
16. 1	9. 25	6. 10	·1028	21. 42	·02142			
18. 5	8. 35	6. 39	·1025	23. 59	·02155			
	***	11. 0	·1039					
20. 45	6. 10	11. 20	·1044					
	***	12. 10	·1041					
22. 2	7. 50	16. 53	·1056					
23. 59	13. 50	19. 30	·1051					
		23. 59	·1022					
May 13		May 13		May 13		May 13		
0. 31	22. 14. 20	0. 30	·1020	0. 15	·02050	1. 40	56 ·0	57 ·4
1. 57	14. 10	1. 50	·1027	3. 45:	·01996	3. 40	58 ·0	58 ·5
2. 8	15. 15	2. 8	·1037	7. 8:	·01730	9. 40	59 ·0	59 ·2
5. 13	8. 55	2. 41	·1028	9. 50	·01418	21. 40	55 ·5	56 ·0
6. 46	8. 0	4. 35	·1038	10. 52:	·01367			
8. 13	9. 0		***	14. 30	·01632			
8. 32	7. 40	6. 33	·1040	19. 7	·02155			
10. 23	9. 20	6. 52	·1033	19. 9	·02128			
	***	7. 18	·1038	19. 33	·02125			
11. 31	7. 0	8. 0	·1033		·02133			
12. 22	9. 25	8. 14	·1018	22. 47:	·01852			
13. 32	10. 45	8. 45	·1030	23. 59	·01745			
20. 57	6. 25	9. 40	·1026					
22. 20	7. 25	10. 20	·1032					
22. 52	6. 30	11. 15	·1026					
23. 59	9. 10	19. 33	·1046					
		23. 59	·1006					
May 14		May 14		May 14		May 14		
0. 33	22. 11. 0	1. 45	·1008	0. 32	·01640	1. 40	60 ·0	61 ·0
3. 5	9. 50	3. 30	·1020	2. 0	·01423	3. 40	62 ·0	64 ·2
5. 8	6. 0	5. 25	·1022	3. 43	·01490	9. 40	62 ·5	65 ·0
6. 57	5. 30	5. 45	·1018	6. 44:	·01823	23. 7	54 ·0	57 ·5
7. 38	6. 20	9. 45	·1024	11. 8	·01980			
10. 23	9. 15	18. 30	·1045	14. 2	·02260			
11. 17	8. 20	21. 0	·1028	14. 4	·02240			
15. 12	9. 50	23. 15	·1016	22. 15	·02126			
19. 30	5. 15	23. 50	·1029	23. 20	·02013			
21. 5	4. 30	23. 59	·1016					
22. 30	8. 0							
23. 3	11. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 14	° ′ ″							
h m		h m		h m		h m		
23. 59	22. 12. 30							
May 15		May 15		May 15		May 15		
0. 6	22. 13. 0	0. 50	·1030	0. 30	·02025	9. 2	63 ·0	64 ·5
1. 0	15. 25	1. 14	·1014	3. 38:	·01878	21. 40	58 ·0	60 ·0
1. 11	14. 30	1. 40	·1028	7. 13	·01450			
1. 37	15. 35	2. 0	·1020	11. 0	·01422			
2. 9	14. 15	3. 50	·1043	14. 47:	·01640			
3. 27	13. 10		***	18. 52:	·02000			
4. 13	14. 10	4. 23	·1022	21. 15	·02105			
4. 46	10. 50		***		·01986			
7. 33	6. 50	4. 45	·1022	23. 59:	·01595			
10. 25	9. 0	4. 57	·1027					
16. 47	8. 40	5. 20	·1019					
17. 14	8. 0	6. 15	·1028					
17. 45	7. 20	6. 35	·1038					
18. 45	6. 10	6. 45	·1035					
19. 9	7. 10	21. 23	·1036					
20. 34	6. 0	23. 37	·1021					
22. 43	10. 25	23. 59	·1022					
23. 58	11. 30							
May 16		May 16		May 16		May 16		
1. 40	22. 14. 10*	0. 45	·1020	1. 0	·01450	1. 40	63 ·0	65 ·5
3. 40	10. 28*	1. 0	·1018	2. 58:	·01553	3. 40	66 ·5	69 ·0
9. 40	6. 43*	4. 15	·1019	4. 57	·01545	9. 40	69 ·0	72 ·0
21. 40	5. 14*	6. 0	·1036		***	21. 40	63 ·0	63 ·3
		6. 30	·1027	7. 21	·01661			
		7. 25	·1031	8. 32	·01773			
		10. 8	·1022	9. 18:	·01773			
		16. 45	·1030	11. 25:	·01918			
		17. 18	·1024	13. 52	·02210			
		17. 34	·1030		·02175			
		18. 53	·1028	22. 35	·02083			
		19. 30	·1020	23. 59	·02016			
			***					
		22. 11	·1010					
		22. 24	·1018					
		22. 30	·1014					
		22. 33	·1016					
		22. 40	·1007					
		22. 45	·1013					
		23. 25	·1011					
		23. 30	·1016					
		23. 40	·1012					
May 17		May 17		May 17		May 17		
1. 37	22. 16. 10	0. 15	·1002	0. 15	·01995	1. 40	65 ·0	67 ·4
2. 4	15. 0		***	2. 50	·01610	3. 40	67 ·5	69 ·5
3. 0	15. 30	0. 46	·1010		(†)	9. 40	67 ·8	70 ·3
5. 13	11. 0	1. 0	·1005	9. 22	·01740	21. 40	59 ·0	61 ·5
6. 47	9. 20	1. 18	·1008	11. 25:	·01875			
9. 35	11. 0	3. 34	·1008	13. 44	·02190			
10. 55	5. 20	4. 53	·1026		·02160			
12. 14	11. 0	5. 45	·1021	15. 40	·02136			
13. 38	11. 30	6. 45	·1022	17. 2	·02051			
14. 35	9. 20	7. 1	·1035	20. 14	·02060			
	***	7. 30	·1022	21. 46	·02010			
					·01785			

Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 17	° ′ ″	May 17		May 17				
h m		h m		h m		h m		
15. 28	22. 10. 30	8. 46	·1022	22. 55	·01648			
15. 46	14. 20	10. 8	·1030	23. 59	·01548			
16. 15	15. 45	11. 0	·1016					
16. 51	7. 30	15. 10	·1026					
17. 31	6. 0	15. 25	·1022					
	***	16. 30	·1040					
18. 25	8. 30	17. 15	·1030					
18. 48	6. 20	19. 0	·1036					
20. 0	6. 0	19. 9	·1044					
	***	19. 17	·1035					
20. 54	8. 45	23. 59	·1022					
21. 43	9. 10							
23. 0	16. 0							
23. 59	17. 55							
May 18		May 18		May 18		May 18		
0. 5	22. 18. 0	0. 15	·1024	0. 15	·01510	1. 40	64 ·5	66 ·0
0. 48	19. 0	1. 13	·1012	2. 1:	·01212	3. 40	67 ·0	68 ·5
1. 2	19. 20		(†)	4. 17	·01330	9. 40	66 ·5	68 ·0
	***	5. 15	·1022	5. 36	·01466	21. 40	57 ·0	58 ·5
3. 32	15. 45	5. 20	·1016	10. 26	·01580			
	***	5. 45	·1031	13. 0	·02065			
4. 17	11. 0	6. 15	·1025	15. 0	·01980			
	***	6. 30	·1036	18. 50	·01962			
4. 36	13. 0		***		(†)			
	***	7. 46	·1026					
5. 12	9. 30	7. 58	·1032					
	***	8. 34	·1025					
7. 7	10. 10	9. 30	·1031					
9. 17	9. 0	9. 58	·1050					
9. 58	18. 50	10. 17	·1030					
10. 36	2. 10	10. 50	·1046					
11. 15	11. 10	11. 25	·1030					
	***	12. 30	·1042					
14. 7	4. 45	13. 30	·1048					
14. 41	11. 0	13. 50	·1041					
15. 14	7. 40		(†)					
	***	17. 0	·1047					
16. 28	9. 30	20. 34	·1052					
17. 41	9. 0		***					
18. 32	7. 5	21. 30	·1060					
19. 34	7. 10	21. 43	·1056					
21. 40	14. 40	21. 50	·1060					
22. 47	16. 50	22. 23	·1063					
23. 14	19. 40	22. 28	·1054					
23. 25	18. 40	22. 31	·1064					
	***	22. 40	·1052					
23. 59	19. 10	22. 45	·1062					
	***		***					
		23. 59	·1061					
May 19		May 19		May 19		May 19		
0. 9	22. 19. 15	0. 15	·1064	1. 15	·01050	1. 40	64 ·0	64 ·8
0. 29	20. 30	0. 23	·1058	2. 52	·01195	3. 40	66 ·0	68 ·0
0. 34	19. 30	0. 28	·1062		***	9. 40	68 ·0	69 ·5
0. 49	21. 10	2. 2	·1035	2. 57	·01170	21. 40	58 ·0	59 ·5
1. 47	20. 0	2. 15	·1026		***			
2. 0	21. 0	2. 44	·1047	5. 23	·01340			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

May 16. The Photographic Traces of the Declination and Horizontal Force Magnets were too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 19		May 19		May 19				
h m	° ′ ″	h m		h m		h m		
2. 24	22. 19. 0	3. 0	·1031	8. 43	·01473			
	***	3. 15	·1032	11. 15	·01408			
2. 51	22. 0	3. 24	·1023	14. 13:	·01635			
3. 0	18. 20	4. 4	·1065	16. 32	·01992			
3. 12	19. 40	4. 24	·1062	19. 17	·01910			
3. 18	18. 0	4. 40	·1074	23. 59	·01840			
3. 42	19. 0	5. 0	·1063					
4. 10	12. 0	5. 13	·1066					
4. 45	21. 0	5. 35	·1047					
4. 55	18. 30	5. 48	·1054					
	***		***					
5. 21	21. 30	6. 50	·1023					
5. 31	19. 0	6. 55	·1031					
6. 13	12. 0	7. 3	·1020					
6. 49	11. 0	7. 12	·1032					
	***	7. 16	·1027					
7. 34	13. 20	7. 43	·1040					
7. 52	10. 30	7. 50	·1030					
8. 24	10. 35	8. 9	·1030					
9. 22	14. 30	8. 15	·1035					
9. 55	11. 20	8. 25	·1031					
10. 26	13. 0	8. 45	·1039					
10. 44	9. 0	9. 13	·1037					
11. 44	13. 30	9. 17	·1048					
	***	9. 50	·1037					
15. 59	14. 0		***					
17. 29	12. 25	11. 15	·1052					
18. 20	15. 30	11. 30	·1040					
19. 2	16. 0	13. 52	·1036					
20. 0	11. 0	14. 24	·1042					
	***	15. 0	·1038					
20. 49	11. 0		***					
22. 32	16. 40	17. 20	·1043					
23. 59	18. 0	18. 35	·1032					
		19. 0	·1042					
		19. 30	·1040					
		19. 32	·1052					
			***					
		20. 55	·1060					
		22. 45	·1053					
		23. 19	·1036					
		23. 59	·1036					
May 20		May 20		May 20		May 20		
0. 6	22. 18. 0	0. 15	·1038	0. 30	·01847	1. 40	62 ·0	64 ·0
1. 1	17. 55	3. 8	·1048	3. 25:	·01633	3. 40	64 ·0	66 ·0
1. 28	18. 30	3. 47	·1043	6. 6	·01225	9. 40	67 ·0	67 ·8
3. 53	12. 25		***	10. 26:	·01420	21. 40	54 ·0	56 ·8
5. 16	11. 30	5. 34	·1036	14. 2	·01952			
5. 36	9. 50	7. 10	·1045	21. 2	·01800			
7. 51	8. 30	7. 23	·1040	23. 47:	·01612			
8. 53	11. 30	8. 8	·1043					
10. 44	11. 30	9. 25	·1036					
14. 0	12. 35	21. 34	·1048					
14. 32	11. 40	22. 15	·1036					
16. 4	12. 0	22. 45	·1042					
19. 43	9. 10	23. 30	·1057					
21. 22	8. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 20								
h m	° ′ ″	h m		h m		h m		
22. 39	22. 16. 5							
23. 16	18. 0							
23. 48	18. 0							
May 21		May 21		May 21		May 21		
0. 4	22. 18. 5	0. 15	·1046	0. 0	·01[illegible]	1. 40	[illegible]	
0. 53	20. 5	0. 45	·1054	2. 0	·01[illegible]	3. 40	[illegible]	
4. 56	8. 50	1. 15	·1047	3. 36	·01210	9. 40	[illegible]	
5. 56	7. 30	2. 15	·1054		***	22. 50	[illegible]	
7. 52	9. 0	3. 0	·1046	10. 2	·01[illegible]			
9. 38	11. 50		***	13. 17:	·01[illegible]			
12. 52	12. 0	4. 35	·1048	16. 16	·01918			
15. 4	12. 50	5. 5	·1028		·01896			
20. 21	8. 25	5. 40	·1044	22. 45	·01818			
21. 45	11. 15	5. 58	·1039	23. 0	·01801			
23. 59	11. 20	6. 23	·1036					
		7. 20	·1050					
		9. 15	·1047					
		11. 30	·1052					
		12. 15	·1054					
		12. 55	·1048					
		18. 15	·1062					
		23. 0	·1030					
		23. 59	·1030					
May 22		May 22		May 22		May 22		
0. 17	22. 18. 0	0. 15	·1031	0. 0	·01710	9. 58	[illegible]	
0. 47:	20. 20	7. 30	·1038	1. 47:	·01470	21. 40	[illegible]	
6. 25	7. 10	7. 35	·1044	2. 43	·01268			
12. 34	11. 35	16. 5	·1068	3. 58	·01238			
14. 2	10. 20	18. 15	·1060	6. 13	·01495			
14. 17	11. 25	18. 40	·1068	10. 20	·01658			
14. 30	10. 20	18. 46	·1064	12. 15:	·01770			
16. 15	10. 0	18. 50	·1070	13. 53	·01980			
16. 38	10. 40		***		·01962			
17. 44	8. 55	19. 30	·1059	21. 30	·01785			
18. 49	12. 10	19. 45	·1064	23. 59:	·01570			
19. 16:	9. 20	20. 45	·1051					
19. 37:	12. 0	23. 9	·1048					
20. 0	10. 0	23. 30	·1052					
20. 33	9. 35	23. 53	·1044					
22. 6	15. 35							
23. 30	17. 25							
23. 59	20. 30							
May 23		May 23		May 23		May 23		
0. 16	22. 22. 0	0. 30	·1050	0. 30	·01[illegible]	1. 40	[illegible]	
0. 30	21. 30	1. 55	·1056	2. 7	·01240	3. 40	[illegible]	
1. 15	23. 40	2. 15	·1054		***	9. 40	[illegible]	
2. 10	22. 40	2. 40	·1068	6. 0	·01[illegible]	21. 40	[illegible]	
	***	2. 53	·1054		***			
2. 51	19. 0	3. 26	·1066	11. 13	·01[illegible]			
3. 58	20. 0	3. 43	·1040	13. 23	·01720			
4. 31	16. 30	3. 52	·1050	15. 45	·01980			
4. 45	16. 40	4. 8	·1041	20. 32	·01875			
5. 2	14. 50	4. 22	·1051	23. 59	·01580			
5. 17	14. 55	4. 30	·1044					
5. 28	12. 30	4. 45	·1070					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 23		May 23						
h m	° ′ ″	h m		h m		h m	°	°
5. 33	22. 13. 30	5. 2	·1060					
6. 3	7. 0	5. 14	·1064					
6. 30	9. 25	5. 26	·1032					
7. 43	8. 0	5. 33	·1040					
9. 20	7. 40	5. 45	·1037					
10. 1	22. 4. 30	6. 25	·1071					
10. 28	21. 57. 45	6. 40	·1053					
11. 6	22. 9. 30	6. 50	·1060					
11. 26	5. 45	7. 3	·1050					
11. 47	9. 10	7. 20	·1062					
12. 23	7. 15	7. 26	·1056					
13. 35	8. 30	7. 34	·1060					
14. 47	11. 30	7. 40	·1056					
15. 38	9. 10		***					
	***	7. 57	·1068					
16. 15	9. 30	8. 21	·1054					
	***	8. 30	·1064					
16. 38	12. 10	9. 0	·1057					
17. 5	10. 30	9. 25	·1064					
17. 13	11. 0	9. 46	·1057					
17. 38	7. 50	10. 0	·1066					
	***	10. 15	·1060					
19. 20	8. 30	10. 57	·1082					
19. 28	9. 0	11. 20	·1058					
19. 33	6. 55	11. 45	·1062					
19. 47	9. 0	12. 8	·1054					
19. 53	6. 30		***					
20. 2	8. 30	13. 0	·1058					
21. 1	8. 10	17. 45	·1070					
21. 26	10. 45	19. 45	·1054					
22. 5	11. 0		***					
	***	23. 59	·1043					
23. 5	14. 10							
23. 55	15. 0							
May 24		May 24		May 24		May 24		
0. 13	22. 19 0	0. 8	·1034	0. 15	·01557	1. 40	65 ·0	68 ·0
0. 19	17. 0	0. 14	·1040	2. 2	·01283	3. 40	69 ·0	71 ·5
0. 29	18. 0	0. 18	·1036		***	9. 40	70 ·5	72 ·5
1. 15	16. 50	0. 30	·1045	4. 27	·01265	21. 40	62 ·0	63 ·0
3. 28	18. 0		***		***			
4. 8	20. 5	2. 23	·1052	6. 36	·01482			
	***	2. 55	·1068	7. 0	·01420			
4. 47	16. 30	3. 0	·1060	7. 36	·01430			
4. 52	14. 10	3. 8	·1068		***			
5. 36	14. 30		***	7. 45	·01382			
	***	3. 58	·1076		***			
6. 2	17. 35	4. 7	·1088	8. 49	·01450			
6. 15	13. 5	4. 28	·1063		***			
6. 28	17. 45	4. 33	·1068	10. 10	·01442			
6. 45	11. 20	4. 35	·1063		***			
6. 54	14. 30	4. 55	·1090	12. 23	·01625			
7. 13	7. 10	5. 0	·1070	13. 11	·01582			
7. 17	22. 8. 20	5. 30	·1110	13. 28	·01510			
7. 45	21. 58. 30	5. 45	·1082	13. 33	·01580			
7. 51	22. 0. 50	6. 4	·1105	13. 55	·01290			
7. 55	21. 57. 30	6. 17	·1084	14. 7	·01315			
8. 13	21. 59. 0	6. 23	·1104	14. 16	·01292			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 24		May 24		May 24				
h m	° ′	h m		h m		h m	°	°
8. 31	22. 3. 30	6. 32	·1060	14. 22	·01340			
8. 43	2. 20		***	14. 31	·01280			
8. 58	4. 0	6. 59	·1098	14. 45	·01510			
9. 10	2. 30	7. 10	·1072	14. 59	·01371			
9. 34	6. 30	7. 20	·1086	15. 7	·01400			
10. 11	9. 15	7. 36	·1064	15. 16	·01322			
10. 23	6. 35		***	15. 23	·01457			
10. 43	11. 45	7. 50	·1102	15. 45	·01222			
11. 14	12. 0		***	15. 49	·01370			
11. 23	10. 15	8. 8	·1063	16. 0	·00987			
11. 47	14. 30	8. 16	·1083	16. 21	·00995			
12. 2:	10. 35	8. 25	·1054	16. 43	·01322			
12. 15	13. 0	8. 27	·1066	16. 57	·01285			
12. 38:	9. 0		***	17. 7	·01350			
13. 2	15. 0	8. 45	·1048	17. 18	·01260			
13. 30	7. 30	9. 0	·1064	17. 30	·01355			
13. 40	22. 30. 0	9. 8	·1054		***			
14. 35	21. 52. 25		***	18. 7	·01227			
14. 52	57. 0	9. 15	·1064	18. 17	·01308			
15. 5	21. 52. 30	9. 26	·1051	18. 30	·01240			
15. 23	22. 22. 30	9. 30	·1062	19. 10	·01491			
15. 34	13. 30	9. 45	·1056	19. 18	·01480			
15. 54	27. 0	10. 3	·1078	19. 46	·01660			
16. 32	0. 40	10. 10	·1067	19. 56	·01645			
16. 57	9. 0	10. 15	·1076	21. 43:	·01810			
17. 7	21. 0	10. 30	·1062	23. 59	·01705			
17. 22	23. 0	10. 40	·1068					
17. 32	33. 40	10. 46	·1048					
17. 43	26. 0	10. 53	·1066					
17. 49	31. 0	10. 59	·1060					
18. 11	5. 5	11. 10	·1082					
18. 21	16. 40	11. 17	·1035					
18. 25	11. 0	11. 23	·1080					
18. 42	10. 0	11. 30	·1063					
18. 50	6. 30		***					
18. 58	12. 50	11. 42	·1087					
19. 21	4. 0	11. 53	·1067					
19. 31	6. 0		***					
19. 32	4. 0	12. 5	·1080					
19. 50	12. 15	12. 15	·1064					
19. 58	8. 40	12. 19	·1070					
20. 8	11. 0		***					
20. 13	9. 50	13. 38	·1006					
20. 28	14. 0	13. 53	·1086					
20. 38	10. 25	13. 58	·1068					
20. 53	12. 45	14. 0	·1087					
20. 58	11. 30	14. 30	·1002					
21. 2	14. 0	14. 40	·1015					
21. 17	9. 0	14. 50	·1006					
21. 28	14. 45	15. 8	·1097					
21. 38	11. 20		***					
21. 46	12. 10	15. 30	·1032					
21. 48	9. 15	15. 35	·1078					
22. 4	13. 15	15. 57	·0957					
22. 14	8. 30	16. 3	·0998					
22. 23	16. 30	16. 11	·0960					
22. 28	14. 20	16. 30	·1002					
22. 57	14. 30	16. 35	·0992					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 24		May 24						
h m	° ′ ″	h m		h m		h m	°	°
23. 4	22. 16. 30	16. 55	·1042					
23. 6	12. 30	17. 12	·1018					
23. 33	16. 40	17. 15	·1034					
		17. 36	·0950					
		17. 42	·0978					
		17. 45	·0970					
		17. 50	·0975					
		18. 0	·0969					
		18. 4	·0978					
		18. 15	·0942					
			***					
		18. 28	·0984					
		18. 49	·0936					
		19. 9	·0996					
		19. 15	·0986					
		19. 20	·0991					
		19. 30	·0958					
		19. 40	·0983					
		19. 50	·0963					
		19. 56	·0982					
		20. 8	·0966					
			***					
		21. 3	·1023					
		21. 15	·1012					
		21. 30	·1022					
			***					
		21. 47	·1014					
		22. 17	·1030					
		22. 30	·1019					
			***					
		23. 11	·1027					
		23. 20	·1020					
		23. 25	·1028					
		23. 34	·1016					
		23. 38	·1023					
		23. 45	·1018					
			***					
May 25		May 25		May 25		May 25		
0. 17	22. 17. 30	0. 10	·1018	0. 22	·01685	1. 40	67 ·3	68 ·0
0. 24	12. 30	0. 20	·1013	4. 15	·01390	3. 40	70 ·0	72 ·0
0. 31	19. 50	0. 25	·1044	7. 50	·01325	9. 40	73 ·5	74 ·0
0. 35	18. 0		***	10. 50:	·01310	21. 40	62 ·5	63 ·5
	***	0. 36	·1026	16. 53:	·01925			
2. 13	21. 30	0. 40	·1033	21. 13:	·01798			
2. 33	24. 45	0. 45	·1026	23. 59	·01582			
2. 56	19. 30	1. 34	·1016					
3. 57	18. 30	2. 30	·1012					
4. 15	15. 0	2. 45	·0987					
5. 48	11. 40		***					
6. 14	7. 30	3. 49	·1026					
6. 41	9. 0	4. 8	·1014					
6. 58	6. 20	4. 40	·1040					
7. 32	8. 50	4. 50	·1034					
7. 54	7. 50	5. 10	·1042					
8. 13	9. 40	5. 45	·1036					
10. 1	11. 20	6. 17	·1048					
10. 15	9. 30	7. 10	·1040					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 25		May 25						
h m	° ′ ″	h m		h m		h m	°	°
11. 43	22. 11. 0	7. 30	·1044					
12. 13	13. 10	8. 0	·1028					
13. 31	11. 5	8. 10	·1032					
13. 58:	12. 30	9. 0	·1032					
14. 53	9. 50	11. 8	·1042					
	***	11. 30	·1036					
18. 30	10. 30	12. 8	·1043					
19. 6	8. 50	13. 27	·1032					
19. 40	10. 0	15. 8	·1036					
20. 1	8. 20	16. 30	·1043					
	***	17. 30	·1040					
21. 28	6. 30	17. 57	·1046					
23. 49	13. 20	22. 15	·1028					
		23. 59	·1030					
May 26		May 26		May 26		May 26		
0. 10	22. 14. 0	0. 15	·1029	0. 30	·01550	1. 40	66 ·2	68 ·3
0. 55	14. 30	1. 25	·1028	3. 28	·01110	3. 40	70 ·3	71 ·3
2. 0	14. 30	5. 8	·1041	5. 47	·01190	9. 40	74 ·3	76 ·0
3. 2	11. 45	5. 20	·1036	7. 5	·01187	21. 40	64 ·0	67 ·3
4. 58	12. 10	5. 34	·1043	10. 55	·01335			
6. 0	10. 0	6. 30	·1038	14. 2	·01770			
7. 24	9. 40	10. 10	·1036	16. 41	·01985			
9. 2	11. 0	19. 5	·1050	16. 45	·01962			
11. 25	10. 35	22. 25	·1034	20. 38	·01920			
12. 35	12. 0	23. 59	·1034	23. 59	·01520			
13. 29	11. 20							
15. 8	12. 25							
19. 0	8. 50							
19. 28	9. 25							
20. 55	8. 30							
23. 4	14. 0							
23. 58	14. 50							
May 27		May 27		May 27		May 27		
0. 7	22. 14. 40	0. 15	·1034	0. 17	·01480	1. 40	70 ·0	73 ·0
1. 1	15. 50	4. 45	·1038	2. 35	·01110	3. 40	74 ·5	77 ·0
	***	6. 27	·1037	3. 30	·01145	9. 40	68 ·0	71 ·0
2. 50	13. 10	7. 30	·1034	4. 56	·01130	21. 40	63 ·0	65 ·0
4. 23	12. 45	14. 27	·1060	7. 5:	·01300			
6. 55	15. 50	14. 42	·1068	9. 35:	·01662			
	***	16. 45	·1065	21. 5	·01817			
7. 57	14. 30	17. 28	·1060	23. 59	·01800			
8. 11	16. 30	18. 25	·1058					
8. 23	15. 0	18. 45	·1060					
	***	19. 15	·1052					
8. 47	16. 15	19. 50	·1052					
9. 5	13. 50	20. 38	·1027					
11. 12	13. 0	21. 20	·1046					
13. 3	14. 0	22. 15	·1040					
14. 25	12. 50		***					
14. 43	14. 20	23. 59	·1043					
15. 20	12. 0							
16. 48	15. 5							
17. 28	12. 0							
	***							
17. 51	13. 35							
19. 43	14. 30							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 27								
h m	° ′ ″	h m		h m		h m		
20. 56	22. 14. 0							
21. 23	17. 10							
22. 7	17. 0							
22. 47	15. 30							
23. 18	16. 50							
23. 37	16. 0							
May 28		May 28		May 28		May 28		
0. 32	22. 15. 5	1. 40	·1039	0. 30	·01781	1. 40	66 ·0	68 ·0
1. 42	15. 50	3. 40	·1043	4. 6:	·01680	3. 40	67 ·0	67 ·5
4. 18	13. 15	9. 40	·1061	10. 40:	·01825	9. 40	65 ·5	67 ·0
5. 17	15. 20	23. 30	·1052	11. 21	·01681	23. 30	59 ·0	61 ·0
5. 53	14. 20			11. 52	·01728			
6. 26	18. 0			21. 44	·01660			
6. 47	13. 30			22. 34	·01672			
7. 43	13. 30			23. 52	·01600			
8. 8	11. 0							
8. 20	11. 0							
8. 45:	8. 30							
9. 26	12. 20							
10. 13	13. 5							
10. 33	12. 0							
10. 58	12. 45							
11. 13	20. 35							
11. 35	7. 40							
12. 2	14. 15							
12. 47:	8. 15							
13. 8:	10. 0							
13. 46	9. 0							
14. 13	11. 10							
15. 9	10. 25							
22. 33	12. 20							
22. 47	13. 25							
23. 6	10. 30							
23. 30	9. 50							
May 29		May 29		May 29		May 29		
0. 0	22. 15. 0	0. 0	·1060	0. 0	·01578	11. 37	62 ·5	64 ·0
0. 52	15. 0	0. 16	·1056	4. 13	·01470	21. 40	59 ·0	59 ·0
1. 50	17. 30	1. 38	·1073	6. 58:	·01275			
4. 13	17. 5	2. 7	·1066	10. 23:	·01132			
5. 53	18. 30	3. 23	·1077	14. 38	·01385			
7. 7	14. 0	3. 38	·1071	15. 5	·01318			
8. 24	11. 0	4. 17	·1084	17. 14	·01407			
8. 47	12. 15	4. 45	·1070	20. 35	·01395			
9. 22	12. 10	7. 15	·1081	23. 45	·01185			
9. 45	14. 40	7. 55	·1072					
9. 53	15. 30	8. 30	·1076					
10. 30	13. 50	10. 33	·1062					
10. 38	11. 30	10. 45	·1070					
11. 38	10. 5	11. 5	·1066					
12. 2	5. 30							
12. 19	7. 30	13. 5	·1066					
12. 45	7. 10	13. 50	·1060					
17. 30	8. 30	14. 38	·1076					
21. 38	8. 20	14. 58	·1064					
	(†)	16. 45	·1074					
		17. 20	·1071					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		May 29						
h m	° ′ ″	h m		h m		h m		
		17. 58	·1048 ***					
		19. 5	·1062 ***					
		20. 21	·1046					
		21. 15	·1054					
		22. 50	·1051					
		23. 45	·1056					
		23. 59	·1046					
May 30		May 30		May 30		May 30		
1. 20	22. 16. 10 ***	0. 14	·1047	1. 30	·01030	1. 40	62 ·0	63 ·0
		0. 29	·1042	2. 30	·00920	3. 40	64 ·0	65 ·0
3. 35	12. 0	0. 45	·1042	7. 43	·01052	9. 40	66 ·0	67 ·5
3. 46	13. 0 ***	1. 15	·1053	8. 6	·01086	21. 40	61 ·0	62 ·5
		3. 20	·1070	10. 30	·01025			
4. 16	8. 40	3. 46	·1066	13. 57:	·01235			
5. 37	11. 0	4. 30	·1079	20. 10	·01768			
7. 31	8. 40	5. 15	·1077	23. 59	·01731			
7. 58:	11. 25	6. 20	·1078					
8. 35	7. 50	6. 40	·1080					
8. 58	10. 15	7. 12	·1074					
9. 42	6. 15	7. 45	·1088					
10. 28	8. 50	8. 30	·1064					
10. 32	7. 0	8. 40	·1068					
10. 38	7. 35	9. 15	·1059					
11. 7	6. 45	9. 48	·1065					
11. 14	4. 35	10. 8	·1056 ***					
11. 21	22. 4. 40							
11. 41	21. 59. 35	11. 8	·1050					
11. 57	22. 2. 0	11. 19	·1069					
12. 6	0. 30	11. 32	·1063					
12. 22	2. 30	11. 45	·1066					
13. 3	3. 0	12. 32	·1050					
13. 25	6. 0	12. 47	·1054					
14. 29	7. 50	14. 10	·1054					
14. 51	6. 0	14. 24	·1058					
15. 14	7. 10	14. 50	·1055					
15. 31	6. 0	15. 10	·1062					
16. 14	14. 10	16. 0	·1054					
17. 6	2. 25 ***	16. 40	·1065					
		17. 8	·1066					
17. 32	2. 50	18. 0	·1054					
17. 40	1. 25 ***	19. 35	·1056					
		20. 5	·1048					
18. 17	3. 0	21. 26	·1054					
18. 32	1. 50 ***	22. 10	·1046					
		22. 20	·1048					
19. 36	6. 10	22. 28	·1044					
19. 51	2. 50	23. 5	·1043					
21. 16	9. 50	23. 15	·1048					
21. 38	9. 20 ***	23. 33	·1047					
		23. 58	·1040					
23. 50	14. 20 ***							
May 31		May 31		May 31		May 31		
0. 15	22. 15. 0	0. 8	·1046	0. 30	·01715	1. 40	62 ·0	63 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

May 28. The Photographic Register of the Horizontal Force Magnet was too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
May 31	° ′ ″	May 31		May 31		May 31		
h m		h m		h m		h m		
1. 51	22. 16. 0	1. 40	·1052	6. 38	·01543	3. 40	61 ·8	64 ·7
3. 32	12. 40	2. 0	·1058	10. 34	·01563	9. 40	62 ·2	63 ·0
4. 35	12. 20	2. 23	·1056	12. 21	·01645	21. 40	58 ·0	59 ·5
4. 55	14. 30	3. 20	·1073	12. 56	·01600			
5. 17	12. 25	3. 38	·1068	15. 58	·01568			
	***		***	17. 10	·01594			
6. 33	11. 50	4. 45	·1080	21. 52	·01532			
	***	5. 11	·1096	23. 59	·01396			
6. 51	9. 55	5. 30	·1085					
7. 30	11. 0	6. 27	·1096					
7. 42	9. 15		***					
8. 30	10. 15	6. 50	·1086					
8. 40	8. 25		***					
9. 7	8. 20	7. 24	·1090					
9. 29	3. 50	7. 35	·1082					
9. 52	8. 0	7. 50	·1087					
10. 14	3. 20	8. 15	·1076					
11. 1	9. 30		***					
12. 47	10. 25	9. 0	·1076					
14. 17	8. 20	9. 25	·1062					
14. 35	10. 30	9. 38	·1071					
15. 13	11. 0	10. 14	·1068					
16. 30	5. 0	10. 23	·1078					
17. 2	6. 35	11. 13	·1058					
	***	11. 28	·1066					
18. 34	5. 0	11. 43	·1060					
	***	11. 58	·1067					
23. 59	13. 30	14. 55	·1066					
		15. 12	·1072					
		16. 30	·1062					
		20. 45	·1058					
		23. 58	·1064					
June 1		June 1		June 1		June 1		
0. 50	22. 15. 10	0. 17	·1056	1. 5	·01360	1. 40	57 ·0	60 ·0
1. 3	13. 50	0. 45	·1064		***	3. 40	61 ·7	63 ·0
1. 38	14. 30	2. 10	·1084	7. 55	·00940	9. 40	62 ·0	64 ·5
2. 11	17. 30	2. 28	·1070		***	21. 40	58 ·5	59 ·7
2. 22	16. 30	2. 40	·1072	12. 34	·00910			
2. 39	18. 10	3. 8	·1066	15. 6	·01061			
3. 6	16. 0	3. 30	·1078	15. 26	·01005			
4. 12	15. 0	3. 49	·1066	15. 50	·01070			
4. 30	10. 10	4. 33	·1074		***			
4. 46	14. 10	4. 45	·1070	16. 25	·00928			
5. 8	15. 0	5. 15	·1080	16. 30	·00950			
5. 42	13. 5	5. 28	·1074	16. 42	·00880			
6. 14	14. 0		***	16. 52	·00922			
7. 43	11. 50	7. 22	·1084	17. 10	·00874			
8. 15	9. 30	7. 49	·1092	17. 45	·00950			
8. 57	10. 0	8. 4	·1064	18. 23	·00972			
	***	8. 38	·1072	18. 40	·00927			
9. 18	13. 0	8. 53	·1066	19. 52	·01050			
10. 2	10. 30	9. 24	·1076		***			
10. 15	8. 20	10. 4	·1062	21. 48	·01150			
10. 32	9. 0	10. 24	·1074		***			
	***	10. 34	·1065	23. 13	·01280			
11. 3	4. 23	10. 43	·1068	23. 59	·01256			
	***	11. 15	·1068					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
June 1	° ′ ″	June 1						
h m		h m						
11. 35	22. 4. [illegible]	12. 0	·1056					
12. 5	12. 40	12. 16	·1045					
12. 31	6. 5	12. 46	·1065					
	***	12. 58	·1062					
12. 43	7. 30	13. 18	·1072					
13. 2	5. 30		***					
13. 35	6. 30	14. 35	·1074					
13. 43	8. 25		***					
13. 50	7. 30	15. 0	·1084					
14. 13	13. 50	15. 25	·1064					
14. 43	8. 20	15. 40	·1066					
15. 6	11. 20	15. 49	·1073					
15. 41	12. 0	16. 25	·1011					
15. 52	24. 5	16. 50	·1060					
	***	17. 8	·1040					
16. 9	19. 20	17. 40	·1033					
16. 17	19. 0	17. 55	·1041					
16. 28	25. 40	18. 8	·1029					
16. 42	15. 10		***					
16. 51	17. 15	18. 30	·1044					
17. 10	9. 50	18. 45	·1030					
17. 27	12. 0		***					
17. 46	19. 0	19. 5	·1033					
	***	19. 15	·1050					
18. 5	14. 35	19. 26	·1040					
18. 23	23. 5	19. 47	·1046					
18. 53	17. 0	19. 57	·1036					
	***	20. 15	·1038					
19. 5	18. 30	20. 30	·1018					
19. 20	14. 0	20. 45	·1022					
19. 51	20. 25		***					
20. 50	8. 20	21. 15	·0992					
21. 4	13. 30		***					
	***	21. 53	·1020					
21. 20	13. 0	22. 3	·1002					
21. 30	8. 30	22. 17	·1028					
	***	22. 40	·1015					
21. 53	17. 25		***					
22. 4	14. 20	23. 15	·1046					
22. 15	18. 25	23. 26	·1040					
22. 31	17. 30		***					
	***	23. 53	·1046					
22. 54	12. 0							
	***							
23. 59	18. 35							
	***							
June 2		June 2		June 2		June 2		
0. 28	22. 21. 10	0. 2	·1040	1. 30	·01228	1. 40	60 ·0	61 ·7
	***	0. 32	·1050	2. 13	·01253	3. 40	62 ·0	63 ·5
0. 55	20. 0	0. 40	·1044		***	9. 40	63 ·5	64 ·7
	***	0. 46	·1043	4. 23	·00925	21. 40	59 ·0	61 ·0
1. 30	23. 5	1. 0	·1054		***			
1. 36	26. 0	1. 8	·1051	6. 13	·01070			
1. 38	24. 20	1. 16	·1058	6. 34	·01010			
1. 57	27. 5	1. 21	·1055	9. 28	·01015			
2. 28	16. 30		***	9. 43	·00990			
2. 48	20. 30	1. 45	·1068	9. 53	·01030			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 2	° ′ ″	June 2		June 2		h m	°	°
h m		h m		h m				
3. 13	22. 18. 0	2. 4	·1028	10. 1	·00985			
3. 25	19. 5	2. 32	·1058	10. 10	·01015			
3. 39	18. 0	2. 47	·1054	11. 4	·00880			
3. 56	19. 30	3. 23	·1077	14. 47	·01007			
	***	4. 14	·1082	16. 21:	·01270			
5. 13	21. 10	4. 23	·1077	18. 50	·01520			
5. 42	16. 20	5. 5	·1088	19. 0	·01500			
5. 52	18. 0	5. 13	·1083	21. 35:	·01548			
6. 7	1. 45	5. 20	·1092	23. 59:	·01455			
6. 36	14. 40	5. 30	·1065					
6. 45	12. 40	5. 53	·1126					
	***	6. 20	·1064					
7. 37	10. 0		***					
7. 55	11. 40	7. 20	·1082					
8. 13	9. 0	7. 46	·1068					
8. 45	9. 25	8. 30	·1082					
9. 25	13. 10	8. 53	·1063					
9. 33	22. 12. 0	9. 5	·1072					
9. 46	21. 58. 20	9. 20	·1052					
9. 53	22. 2. 50	9. 28	·1064					
10. 7	21. 53. 55	9. 38	·1050					
10. 36	22. 5. 30	9. 56	·1080					
10. 49	5. 55	10. 28	·1066					
11. 7	1. 15	10. 43	·1044					
11. 28	4. 0	10. 58	·1054					
11. 43	4. 25	11. 15	·1043					
12. 7	11. 0	11. 45	·1038					
12. 28	5. 0	12. 15	·1043					
12. 33	4. 30	12. 55	·1058					
13. 0:	8. 0	13. 22	·1050					
13. 32	2. 45	13. 45	·1034					
13. 46	2. 0	14. 3	·1044					
13. 56	3. 50	14. 24	·1024					
14. 18	4. 15	14. 52	·1044					
14. 43	12. 50		***					
16. 0	8. 50	15. 48	·1054					
16. 47	7. 0	16. 57	·1036					
	***	17. 17	·1035					
17. 13	9. 30		***					
	***	18. 30	·1051					
18. 14	10. 0	18. 55	·1052					
	***	19. 4	·1044					
18. 47	7. 0	20. 0	·1032					
	***	21. 15	·1037					
20. 0	8. 0		***					
20. 8	7. 0	22. 50	·1032					
20. 18	8. 30	23. 0	·1042					
21. 8	5. 30	23. 7	·1034					
22. 28	7. 30	23. 14	·1037					
23. 59	11. 50	23. 29	·1037					
		23. 34	·1053					
June 3		June 3		June 3		June 3		
5. 0	22. 9. 20	0. 0	·1038	0. 30	·01295	1. 40	63 ·0	64 ·0
7. 23	9. 0		(†)	1. 37:	·01240	3. 40	65 ·5	68 ·0
8. 20	7. 35	6. 50	·1028	3. 47	·00970	9. 40	68 ·5	69 ·5
9. 47	8. 0	7. 5	·1032	6. 37	·01180	21. 40	55 ·0	57 ·0
10. 18	6. 20	7. 23	·1026	7. 51	·01175			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 3	° ′ ″	June 3		June 3		June 4		
h m		h m		h m		h m	°	°
10. 58	22. 7. 0	11. 24	·1020	10. 47:	·01333			
11. 8	6. 15	12. 0	·1024	15. 15	.01885			
11. 51	8. 30	13. 35	·1018	15. 16	·01867			
12. 43	7. 30	15. 5	·1026	22. 0	·01790			
14. 13	9. 30	16. 30	·1032		(†)			
14. 50	11. 50	19. 5	·1026					
16. 47	6. 50	21. 10	·1008					
20. 5	6. 10	22. 44	·1002					
20. 50	3. 50	23. 59	·1010					
23. 0	14. 10							
June 4		June 4		June 4		June 4		
6. 0	22. 7. 40	1. 40	·1043*	0. 30	·01060	1. 40	59 ·5	61 ·0
8. 7	9. 20	3. 40	·1041*	5. 35:	·01083	3. 40	62 ·0	64 ·5
8. 17	8. 0	9. 40	·1045*	12. 36	·01830	9. 40	65 ·5	66 ·5
9. 0	9. 30	23. 0	·1026*	14. 38	·01808	23. 0	63 ·5	64 ·5
9. 40	8. 15			15. 53:	·01840			
10. 4	10. 0			17. 17	·01770			
11. 48	9. 30				(†)			
12. 7	11. 0							
12. 50:	8. 0							
14. 42:	11. 0							
15. 38	8. 50							
16. 7	9. 50							
16. 43	7. 0							
17. 53	7. 35							
18. 5	8. 0							
18. 14	6. 40							
	***							
19. 51	5. 0							
21. 30	6. 40							
23. 59	11. 20							
June 5		June 5		June 5		June 5		
0. 7	22. 11. 30	5. 33	·1068	0. 0	·01665	9. 40	69 ·0	68 ·5
1. 47	13. 30	9. 30	·1052	2. 13:	·01415	21. 40	60 ·0	63 ·5
2. 13	13. 15	11. 56	·1062	4. 33	·01013			
2. 32	15. 20	14. 32	·1048	10. 34	·01160			
4. 0	12. 15	15. 0	·1055	13. 57:	·01030			
8. 57	7. 30	19. 5	·1062	17. 35	·01870			
9. 15	9. 0	19. 45	·1059	20. 2	·01805			
9. 32	7. 30		(†)	21. 10	·01812			
10. 51	9. 20			22. 50	·01728			
11. 50	8. 30							
12. 5	9. 0							
13. 18	8. 50							
14. 28	9. 40							
17. 0	7. 0							
	***							
19. 7	5. 30							
20. 9	1. 30							
	***							
20. 51	4. 40							
23. 59	12. 40							
June 6		June 6		June 6		June 6		
0. 23	22. 14. 10	0. 5	·1027	0. 25	·01558	1. 40	64 ·0	66 ·0
1. 32	13. 0	0. 20	·1026	1. 21:	·01410	3. 40	68 ·0	68 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

June 4. The Photographic Register of the Horizontal Force was too faint for use.

June 5. The times for Horizontal Force on this day are somewhat doubtful.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
June 6		June 6		June 6		June 6		
h m	° ′ ″	h m		h m		h m	°	°
2. 58	22. 14. 45	1. 0	·1034	2. 35	·01150	9. 40	67 ·5	68 ·0
7. 21	8. 30	1. 35	·1028	3. 12	·01065	21. 40	59 ·5	61 ·0
7. 46	8. 20	3. 5	·1042	10. 23	·01123			
9. 28	8. 0	3. 57	·1037	13. 53:	·01447			
9. 44	7. 25	4. 5	·1043	16. 35	·01825			
10. 53	9. 0	4. 40	·1041	19. 6	·01765			
11. 47	4. 0	6. 30	·1056		·01700			
12. 5	5. 0	7. 20	·1053	21. 53	·01718			
12. 17	3. 30	7. 34	·1046	23. 59:	·01415			
12. 50	5. 35	8. 10	·1058					
12. 57	4. 40	8. 30	·1050					
13. 25	8. 25	9. 27	·1043					
13. 43	6. 25	9. 40	·1049					
14. 10	7. 40	10. 15	·1050					
15. 3	3. 0	10. 26	·1048					
15. 21	6. 10	10. 42	·1044					
15. 43	5. 45	11. 20	·1052					
16. 31	8. 0		***					
16. 48	6. 10	12. 55	·1040					
	***	13. 37	·1047					
18. 20	8. 50	14. 15	·1059					
	***	15. 17	·1048					
18. 43	6. 50	16. 30	·1057					
	***							
19. 21	8. 25	17. 0	·1052					
19. 51	8. 0	17. 29	·1060					
21. 12	10. 30		***					
21. 23	9. 30	18. 35	·1062					
22. 11	10. 10	20. 45	·1048					
23. 59	17. 0	22. 0	·1046					
		23. 5	·1046					
		23. 59	·1034					
June 7		June 7		June 7		June 7		
0. 7	22. 17. 15	0. 25	·1030	0. 15	·01385	1. 40	63 ·0	66 ·0
2. 8	15. 30	1. 15	·1029	2. 0	·01000	3. 40	67 ·0	70 ·0
3. 36	11. 35	1. 33	·1029	4. 52	·01248	9. 40	70 ·8	72 ·5
6. 53	7. 0	2. 8	·1038	6. 5	·01260	21. 45	67 ·0	66 ·0
7. 25	2. 15	2. 20	·1037	7. 32	·01390			
9. 13	6. 20	3. 15	·1040	9. 28	·01405			
10. 24	4. 0	3. 40	·1033	13. 15	·01581			
11. 27	7. 0	4. 17	·1036	16. 38	·01978			
12. 17	6. 0	5. 2	·1031	21. 33:	·01848			
12. 37	7. 30	5. 34	·1044	23. 52	·01665			
16. 20	7. 40	6. 35	·1042					
19. 8	5. 0	6. 50	·1032					
20. 47	4. 50		***					
21. 50	6. 40	7. 7	·1028					
21. 56	5. 0	7. 30	·1040					
23. 48	11. 40	7. 50	·1040					
		8. 13	·1033					
		8. 35	·1035					
			***					
		10. 30	·1022					
		10. 45	·1026					
		10. 59	·1023					
		11. 30	·1030					
		11. 45	·1026					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
		June 7						
h m	° ′ ″	d h m						
		12. 20	·1028					
		12. 40	·1035					
		19. 0	·1040					
		19. 23	·1034					
		21. 46	·1020					
		21. 55	·1026					
		22. 0	·1022					
		23. 28	·1022					
		23. 45	·1018					
		23. 58	·1016					
June 8		June 8		June 8		June 8		
0. 0	22. 12. 10	0. 10	·1017	0. 0	·01638	1. 40	72 ·5	75 ·0
1. 5	15. 0	0. 50	·1014	1. 20:	·01458	3. 40	74 ·5	77 ·0
1. 33	17. 20	1. 11	·1008	2. 20	·01200	9. 40	73 ·0	73 ·0
4. 56	8. 50	1. 33	·1020	4. 10	·01348	21. 40	68 ·0	68 ·0
6. 8	5. 0	2. 25	·1010	4. 32	·01326			
7. 28	3. 20	3. 8	·1026		***			
7. 36	6. 45	3. 34	·1024	7. 50	·01698			
11. 30	8. 30		***	10. 2:	·01790			
14. 22	8. 30	5. 17	·1032	12. 2	·02005			
15. 2	10. 0	5. 26	·1028	21. 2	·01925			
16. 48	7. 30		***	23. 55:	·01718			
18. 47	5. 10	5. 46	·1033					
20. 18	3. 10	6. 0	·1028					
20. 35	0. 35		***					
21. 32	3. 10	7. 45	·1028					
23. 53	14. 40	8. 8	·1024					
		8. 19	·1037					
		9. 7	·1042					
		9. 15	·1046					
		11. 15	·1060					
		12. 16	·1055					
		17. 0	·1069					
		20. 30	·1054					
		21. 50	·1042					
		23. 15	·1042					
		23. 57	·1044					
June 9		June 9		June 9		June 9		
0. 0	22. 15. 20	0. 0	·1040	0. 15	·01765	1. 40	69 ·0	71 ·0
1. 1	18. 50	2. 40	·1068	2. 40	·01523	3. 40	72 ·0	74 ·0
2. 26	18. 40	3. 13	·1070			9. 40	70 ·0	73 ·0
5. 27	11. 45	4. 0	·1064	5. 41	·01465	21. 46	64 ·0	66 ·0
7. 7	9. 30	4. 30	·1075					
9. 23	8. 0	5. 0	·1064	8. 46	·01516			
10. 30	8. 0	5. 23	·1062	15. 2	·01580			
11. 42	7. 15	5. 33	·1068	15. 16	·01570			
12. 26	9. 25	6. 20	·1062	17. 13	·01685			
12. 55	6. 30	6. 50	·1065	17. 31	·01685			
14. 18	6. 30	6. 55	·1060		·01735			
14. 38	9. 15	7. 10	·1066	21. 2	·01847			
14. 47	7. 45	10. 45	·1077	23. 59	·01750			
15. 6	16. 45	10. 53	·1082					
15. 35	1. 30	10. 58	·1076					
16. 26	9. 10	11. 35	·1075					
16. 39	8. 0	11. 45	·1080					
16. 55	10. 10	12. 3	·1081					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 9		June 9						
h m	° ′ ″	h m		h m		h m	°	°
17. 15	22. 18. 35	13. 43	·1076					
17. 20	17. 15	14. 30	·1076					
17. 26	19. 5	14. 53	·1081					
17. 48	11. 30	15. 45	·1064					
18. 32	5. 30	16. 45	·1060					
18. 45	8. 10	16. 53	·1068					
19. 2	3. 15	17. 10	·1065					
19. 23	4. 30	17. 35	·1074					
19. 32	3. 0	18. 0	·1064					
20. 28	8. 0	18. 10	·1060					
22. 8	6. 30	18. 45	·1068					
23. 45	14. 0	19. 0	·1062					
		19. 45	·1058					
		20. 0	·1052					
		20. 55	·1059					
		23. 8$\frac{4}{5}$	·1044					
		23. 45	·1044					
		23. 59	·1047					
June 10		June 10		June 10		June 10		
0. 0	22. 15. 15	0. 30	·1045	0. 45	·01704	1. 40	65·5	67·7
0. 47	15. 25	1. 0	·1043	3. 13	·01480	3. 40	71·0	73·0
2. 5	14. 50	2. 5	·1046	5. 14	·01150	9. 40	68·5	72·0
2. 50	15. 40	3. 15	·1058	8. 13	·01208	21. 40	69·5	73·0
5. 41	9. 15	3. 55	·1051	14. 45:	·01512			
8. 5	7. 0		***	20. 48:	·01972			
9. 33	8. 20	6. 45	·1056	23. 59	·01590			
15. 40	8. 0	9. 30	·1051					
18. 33	5. 10	18. 17	·1065					
21. 18	4. 10	23. 59	·1024					
22. 53	6. 40							
23. 59	10. 30							
June 11		June 11		June 11		June 11		
0. 17	22. 12. 15	0. 15	·1022	0. 30	·01490	1. 40	74·5	77·0
2. 31	12. 50	1. 8	·1020	1. 13	·01308	3. 40	78·0	80·8
3. 46	13. 10	1. 40	·1015	2. 5	·01365	9. 40	76·5	78·5
6. 0	9. 10	2. 38	·1020	4. 32	·01240	23. 20	66·8	68·7
7. 0	7. 30	2. 50	·1026	11. 34	·01615			
8. 22	8. 50	4. 8	·1035	13. 52	·01900			
10. 23	8. 10	5. 40	·1034	19. 25	·01735			
11. 27	7. 40	7. 0	·1046	23. 16	·01692			
12. 28	7. 30		***					
15. 27	7. 25	7. 38	·1040					
15. 30	6. 35	9. 9	·1036					
15. 32	6. 30	15. 33	·1046					
15. 38	7. 30		***					
16. 22	4. 0	15. 50	·1059					
	***		***					
16. 51	4. 15	17. 32	·1066					
	***		***					
17. 8	7. 40	18. 38	·1051					
	***		***					
17. 27	5. 25	19. 17	·1070					
	***		***					
17. 47	6. 30	19. 38	·1052					
18. 0	4. 0	19. 56	·1064					
18. 15	9. 50	20. 30	·1048					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 11		June 11						
h m	° ′ ″	h m		h m		h m	°	°
18. 23	22. 8. 0	22. 18	·1036					
18. 30	6. 40	22. 34	·1042					
18. 32	10. 30	22. 47	·1034					
19. 4	9. 25	23. 15	·1040					
19. 8	7. 30	23. 53	·1045					
19. 15	9. 30							
19. 33	5. 5							
20. 14	9. 35							
20. 32	7. 45							
21. 2	9. 50							
21. 13	8. 15							
	***							
22. 17	10. 45							
22. 34	13. 15							
22. 47	13. 10							
23. 53	16. 45							
June 12		June 12		June 12		June 12		
0. 5	22. 16. 0	0. 0	·1044	0. 30	·01704	11. 55	67·8	70·0
2. 15	15. 0	0. 25	·1045	10. 8	·01640	21. 49	63·2	66·7
3. 53	12. 45	1. 0	·1053	14. 0	·01734			
4. 14	15. 50	1. 30	·1048	14. 2	·01724			
4. 53	13. 0	2. 23	·1048	15. 6	·01777			
5. 47	11. 0	2. 35	·1052	15. 8	·01756			
10. 14	9. 10	2. 50	·1046	20. 8	·01732			
15. 13	8. 0	3. 20	·1051	23. 59	·01650			
15. 25	8. 35	3. 52	·1043					
	***	5. 28	·1058					
16. 30	6. 40		***					
17. 7	7. 30	5. 45	·1058					
	***	6. 10	·1053					
18. 16	5. 0	6. 53	·1062					
	***	7. 0	·1058					
21. 12	5. 35	7. 30	·1076					
21. 32	7. 30	8. 0	·1056					
22. 10	8. 10	8. 10	·1060					
22. 43	13. 0	8. 25	·1056					
23. 13	11. 20	10. 17	·1052					
23. 38	13. 10	10. 30	·1059					
23. 59	12. 50	10. 55	·1052					
		11. 6	·1057					
		11. 17	·1053					
		18. 20	·1058					
			***					
		20. 57	·1050					
			***					
		22. 23	·1031					
			***					
		23. 23	·1050					
		23. 50	·1048					
June 13		June 13		June 13		June 13		
0. 15	22. 13. 0	0. 0	·1048	0. 10	·01650	1. 40	63·5	66·2
1. 16	16. 0	1. 55	·1051	2. 17:	·01700	3. 40	62·5	65·8
3. 20	17. 40	2. 30	·1060	4. 8	·01648	9. 40	60·6	62·7
5. 43	13. 0	2. 50	·1054	8. 55	·01680	21. 40	60·0	63·0
6. 8	14. 45	3. 37	·1074	11. 2	·01595			
6. 17	14. 10	4. 8	·1062	20. 34	·01448			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 13		June 13		June 13				
h m	° ′ ″	h m		h m		h m	°	°
6. 45	22. 14. 15		***	21. 44	·01370			
7. 15	12. 30	5. 10	·1070	22. 21	·01285			
9. 2	13. 20	5. 34	·1082	22. 37	·01280			
10. 6	11. 0	6. 20	·1074	22. 46	·01226			
10. 34	11. 45	6. 45	·1089	22. 52	·01267			
11. 23	8. 55	7. 2	·1076		***			
11. 47	11. 20		***	23. 59	·01171			
12. 23	10. 40	8. 5	·1078					
13. 5	11. 25	8. 23	·1074					
13. 41	9. 15	8. 50	·1084					
13. 58	10. 5	9. 45	·1072					
14. 35	9. 20	10. 5	·1076					
15. 6	10. 20	11. 8	·1072					
15. 40	8. 20	11. 35	·1076					
16. 29	8. 0	12. 15	·1068					
	***	13. 17	·1070					
17. 47	4. 40		***					
18. 10	7. 30	18. 8	·1070					
18. 23	4. 20	18. 25	·1062					
18. 35	7. 5	18. 40	·1066					
18. 43	5. 45		***					
	***	20. 38	·1052					
19. 6	8. 0	20. 55	·1055					
19. 14	7. 0	21. 10	·1042					
	***	21. 40	·1048					
20. 44	7. 30	22. 3	·0988					
21. 4	9. 30	22. 5	·1004					
21. 16	7. 30	22. 14	·0988					
21. 47	12. 25	22. 25	·1013					
	***	22. 30	·0998					
22. 2	15. 0	22. 34	·1036					
22. 4	11. 30	22. 40	·1001					
	***	22. 52	·1031					
22. 15	16. 0	23. 4	·1015					
	***		***					
22. 23	5. 15	23. 24	·1038					
	***	23. 30	·1032					
22. 40	19. 50		***					
22. 50	7. 0	23. 44	·1038					
	***	23. 45	·1044					
23. 3	20. 30	23. 47	·1052					
	***	23. 49	·1046					
23. 13	16. 30	23. 56	·1060					
	***							
23. 47	23. 30							
	***							
23. 54	20. 40							
	***							
June 14		June 14		June 14		June 14		
0. 12	22. 21. 10	0. 0	·1044	0. 0	·01160	1. 40	65 ·2	65 ·2
0. 17	14. 40	0. 3	·1051		***	3. 40	65 ·6	68 ·0
	***	0. 5	·1046	0. 29	·01080	9. 40	68 ·2	69 ·0
0. 28	17. 10	0. 9	·1072	0. 42	·01138	21. 40	63 ·0	65 ·0
	***	0. 15	·1058	1. 32	·01020			
0. 31	12. 50	0. 20	·1068	2. 31	·00865			
0. 47	29. 40	0. 27	·1054	6. 17	·01060			
	***	0. 35	·1090	10. 57	·00968			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 14		June 14		June 14				
h m	° ′ ″	h m		h m		h m	°	°
1. 9	22. 25. 35	0. 50	·1053	12. 40	·01074			
	***	0. 56	·1058	14. 32	·01270			
1. 24	26. 0		***	17. 31	·01780			
	***	1. 5	·1045	17. 33	·01790			
1. 45	16. 25	1. 10	·1050		***			
	***		***	19. 23	·01680			
2. 15	17. 30	1. 21	·1039		***			
	***	1. 25	·1045	21. 23	·01672			
2. 18	15. 30	1. 30	·1032	21. 28	·01570			
2. 19	20. 50	2. 0	·1068	22. 8	·01585			
2. 21	17. 20	2. 23	·1124	23. 59	·01365			
2. 37	21. 30	2. 50	·1018					
2. 45	20. 0		***					
3. 5	25. 25	3. 45	·1052					
	***	3. 52	·1046					
4. 2	18. 0	4. 15	·1066					
	***	4. 27	·1052					
4. 37	19. 20	4. 35	·1068					
5. 9	14. 40	4. 55	·1068					
	***	5. 4	·1050					
5. 43	17. 15	5. 11	·1054					
6. 18	13. 15		***					
6. 43	15. 0	5. 46	·1036					
7. 18	12. 50		***					
9. 36	13. 30	6. 24	·1058					
10. 20	11. 40	6. 30	·1056					
10. 46	12. 10	6. 37	·1064					
11. 16	8. 50		***					
11. 32	10. 40	6. 47	·1056					
	***	7. 0	·1061					
12. 24	8. 0	7. 23	·1054					
12. 52	16. 5	7. 44	·1060					
13. 10	14. 50		***					
13. 20	10. 30	8. 57	·1050					
	***	9. 13	·1056					
14. 5	11. 20	9. 30	·1050					
14. 11	13. 5	9. 45	·1053					
14. 32	5. 25	10. 4	·1048					
14. 36	6. 30	10. 35	·1055					
	***	11. 2	·1048					
14. 47	4. 0	11. 15	·1055					
14. 58	4. 30		***					
15. 7	2. 0	11. 32	·1054					
	***	11. 41	·1046					
15. 40	1. 20		***					
16. 14	6. 5	12. 15	·1046					
16. 33	4. 50	12. 30	·1058					
	***	12. 55	·1058					
16. 51	7. 30	13. 14	·1046					
	***	13. 35	·1049					
17. 6	4. 0	14. 0	·1040					
17. 12	6. 50		***					
17. 23	4. 55	14. 40	·1055					
17. 35	6. 30		***					
17. 57	4. 30	15. 38	·1052					
	***	16. 37	·1054					
18. 17	5. 10		***					
18. 20	2. 30	17. 20	·1056					
	***		***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 14		June 14						
h m	° ′ ″	h m		h m		h m	°	°
18. 42	22. 6. 20	18. 53	·1060					
19. 1	4. 30		***					
19. 5	6. 30	19. 28	·1038					
19. 13	2. 45	19. 45	·1056					
19. 20	8. 25		***					
19. 33	2. 30	20. 23	·1039					
19. 47	8. 0	20. 32	·1045					
	***	20. 38	·1040					
20. 20	6. 35	20. 45	·1044					
20. 28	3. 0	21. 0	·1020					
20. 30	4. 0	21. 2	·1033					
20. 42	5. 45	21. 15	·1012					
20. 47	3. 55	21. 25	·1036					
20. 53	7. 15		***					
21. 5	4. 55	21. 38	·1020					
	***	22. 0	·1016					
21. 16	7. 30	22. 3	·1024					
21. 18	5. 50	22. 6	·1012					
21. 28	11. 30	22. 10	·1018					
21. 31	7. 40	22. 12	·1010					
21. 36	10. 25	22. 16	·1026					
21. 45	6. 30	22. 19	·1014					
22. 2	8. 35	22. 20	·1022					
22. 15	13. 0	22. 25	·1001					
	***	22. 38	·1025					
22. 32	9. 25	22. 40	·1018					
22. 37	14. 0	22. 46	·1026					
22. 48	10. 30	22. 53	·1006					
22. 57	13. 0	22. 58	·1028					
22. 59	8. 55	23. 0	·1018					
23. 5	14. 10	23. 15	·1010					
23. 28	10. 30	23. 30	·1019					
23. 50	12. 0	23. 59	·1015					
23. 59	14. 0							
June 15		June 15		June 15		June 15		
0. 7	22. 15. 0	0. 20	·1004	0. 7	·01347	1. 40	69 ·8	69 ·5
0. 26	15. 0	0. 30	·1003	1. 37	·00982	3. 40	69 ·8	71 ·0
0. 36	12. 5	0. 34	·1008	2. 15	·01015	9. 49	70 ·5	72 ·3
0. 47	16. 0	0. 53	·1000	3. 32	·00997	21. 40	64 ·5	66 ·0
0. 51	14. 45	1. 0	·1002	5. 17	·01056			
0. 57	16. 0	1. 15	·0994	8. 1	·01030			
1. 22	13. 30	2. 5	·1044		***			
	***		***	9. 47	·01080			
2. 22	15. 0	2. 27	·1028	10. 10	·01041			
4. 51	10. 45	2. 58	·1042	10. 40	·01122			
7. 38	10. 0	3. 45	·1033	11. 7	·01047			
8. 25	11. 40	3. 50	·1037	14. 30	·01403			
	***	3. 57	·1032	18. 5	·01820			
8. 34	9. 30		***	18. 10	·01800			
8. 52	11. 50	6. 14	·1031	20. 35	·01778			
	***	6. 18	·1040		***			
9. 31	0. 0	7. 30	·1035	23. 59	·01563			
	***		***					
9. 43	1. 30	8. 8	·1043					
9. 45	0. 15	8. 13	·1056					
9. 54	22. 10. 10	8. 20	·1042					
0. 18	21. 55. 0	8. 30	·1052					
	***	8. 45	·1050					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 15		June 15						
h m	° ′ ″	h m		h m		h m	°	
10. 37	21. 45. 55	8. 53	·1076					
10. 59	57. 0	8. 57	·1063					
11. 1	55. 10	9. 0	·1070					
11. 4	57. 10	9. 3	·1046					
11. 13	21. 54. 25	9. 13	·1068					
11. 32	22. 2. 10	9. 16	·1056					
	***	9. 19	·1072					
11. 55	6. 0	9. 27	·1052					
12. 0	3. 30	9. 35	·1057					
12. 7	5. 25	9. 40	·1037					
12. 9	4. 0	9. 44	·1057					
12. 13	6. 0	9. 46	·1042					
12. 43	6. 40	9. 50	·1050					
	***	10. 12	·1022					
13. 5	3. 30	10. 24	·1042					
13. 8	5. 15	10. 32	·1024					
13. 15	3. 0	10. 43	·1046					
13. 38	6. 0	10. 50	·1036					
13. 51 :	4. 0	11. 8	·1048					
14. 11	7. 10	11. 16	·1030					
	***	11. 25	·1035					
14. 41	4. 25	11. 30	·1034					
	***	11. 40	·1043					
15. 0	6. 30	11. 50	·1036					
15. 5	5. 20	12. 3	·1038					
15. 8	8. 0	12. 13	·1052					
15. 11	3. 25	12. 30	·1040					
15. 16	7. 30	13. 3	·1041					
15. 30	3. 30	13. 14	·1032					
	***	13. 23	·1040					
16. 16	9. 0	13. 35	·1040					
	***	13. 57	·1032					
17. 48	5. 30	14. 15	·1044					
17. 55	8. 0	14. 22	·1041					
17. 58	5. 35	14. 26	·1050					
18. 16	3. 30	14. 45	·1038					
18. 20	7. 10	15. 0	·1040					
18. 29	5. 20	15. 12	·1032					
18. 32	7. 0	15. 20	·1037					
18. 40	8. 0		***					
18. 43	4. 30	18. 30	·1036					
18. 50	7. 0		***					
18. 53	5. 0	22. 0	·1024					
18. 59	6. 30	22. 38	·1026					
19. 4	5. 20	23. 4	·1020					
	***	23. 40	·1022					
19. 50	7. 25	23. 45	·1018					
	***	23. 59	·1020					
20. 8	6. 45							
20. 14	4. 0							
20. 31	7. 50							
20. 35	5. 30							
20. 46	9. 20							
21. 1	7. 5							
	***							
22. 5	8. 30							
	***							
23. 59	14. 30							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June16		June16		June16		June16	°	°
h m	° ′ ″	h m		h m		h m		
0. 42	22. 16. 0	0. 0	·1021	0. 20	·01628	1. 40	67 ·0	68 ·5
1. 0	15. 15	0. 33	·1024	2. 23:	·01330	3. 40	72 ·0	73 ·0
1. 23	17. 15	1. 30	·1022	3. 50	·01042	9. 40	71 ·2	74 ·0
1. 35	15. 30	1. 53	·1035	5. 10	·01113	21. 40	67 ·0	69 ·0
2. 13	15. 50		***	6. 30	·01121			
3. 22	13. 10	3. 3	·1032	6. 43	·01180			
	***	3. 30	·1023	8. 36	·01171			
4. 20	13. 0	3. 40	·1032	11. 45	·01326			
4. 23	14. 25	4. 10	·1030	15. 11	·01817			
4. 37	11. 30	4. 15	·1040	21. 13	·01716			
	***		***	22. 32:	·01657			
5. 45	11. 30	4. 57	·1022	23. 59:	·01540			
	***	5. 14	·1022					
6. 12	10. 0		***					
6. 18	11. 20	5. 26	·1036					
6. 35	9. 0		***					
6. 52	10. 40	6. 10	·1026					
7. 12	9. 30	6. 25	·1036					
9. 17	8. 20	6. 43	·1022					
10. 47	5. 0	7. 8	·1038					
11. 13	5. 35		***					
11. 49	3. 0	8. 15	·1030					
11. 56	5. 0		***					
12. 10	3. 40	9. 40	·1046					
12. 40	6. 35	10. 15	·1044					
13. 13	5. 40	10. 50	·1055					
13. 23	8. 0	11. 30	·1046					
13. 38	5. 30	11. 44	·1048					
15. 30	7. 0	12. 0	·1031					
	***	13. 0	·1033					
18. 40	3. 0	13. 15	·1048					
19. 43	3. 5	13. 28	·1040					
19. 55	2. 20		***					
21. 8	5. 25	15. 45	·1046					
21. 27	5. 0	15. 50	·1052					
23. 2	11. 0	19. 0	·1046					
23. 25	11. 0	21. 25	·1028					
23. 59	13. 0	23. 59	·1021					
June17		June17		June17		June17		
0. 6	22. 14. 0	0. 0	·1022	0. 17:	·01500	1. 40	69 ·0	69 ·8
0. 30	15. 5	0. 45	·1018	2. 53	·00948	3. 40	71 ·0	72 ·6
0. 45	14. 50	1. 15	·1024	6. 10:	·01090	9. 40	70 ·7	73 ·0
1. 13	16. 5	1. 55	·1038	8. 46	·01070	21. 40	62 ·0	65 ·0
1. 52	17. 25	2. 10	·1032	11. 32:	·01265			
2. 8	16. 10	2. 21	·1038	15. 15	·01770			
2. 21	17. 5	3. 8	·1030	15. 20	·01750			
3. 13	15. 0	3. 30	·1038	20. 31	·01710			
3. 22	16. 5	3. 46	·1032	23. 59	·01575			
	***	3. 52	·1040					
3. 47	14. 10	3. 58	·1031					
3. 51	15. 40		***					
5. 47	11. 10	6. 0	·1027					
6. 31	7. 40	7. 45	·1040					
7. 47	8. 55		***					
8. 47	8. 55	9. 4	·1042					
	***	9. 10	·1050					
10. 32	6. 15	9. 28	·1041					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June17		June17				June18		
h m	° ′ ″	h m		h m		h m		
11. 20	22. 7. 30	9. 45	·1046			0. 20	·01568	1. 40
12. 7	5. 45	10. 16	·1042			3. 35:	·01	3. 4
12. 28	7. 30	10. 35	·1047			6. 52	·00910	9. 40
	***	11. 50	·1040					23. 40
13. 58	6. 0	12. 26	·1046					
14. 23	4. 20	13. 15	·1049					
14. 57	5. 40	14. 13	·1038					
15. 25	4. 45	20. 0	·1053					
16. 25	6. 45	23. 13	·1040					
18. 2	5. 20	23. 59	·1042					
20. 40	4. 0							
20. 48	3. 30							
21. 3	4. 0							
23. 59	12. 10							
June18		June18		June18				
0. 17	22. 12. 30	0. 20	·1040	0. 20	·01568			
1. 25	13. 25		***	3. 35:	·01			
3. 14	17. 0	4. 14	·1044	6. 52	·00910			
5. 13	12. 50	4. 20	·1052					
6. 30	11. 0	4. 40	·1044	11. 28	·00			
8. 16	10. 0	4. 50	·1048	14. 51:	·01			
9. 2	11. 0	5. 16	·1042	17. 20	·01462			
12. 45	11. 10		***	17. 30	·01410			
13. 43	9. 35	8. 10	·1064	20. 54	·01			
	***		***	23. 59	·01250			
15. 51	9. 30	9. 45	·1062					
16. 22	11. 40	16. 25	·1058					
16. 37	10. 0		***					
	***	17. 0	·1055					
17. 23	14. 0	17. 23	·1046					
	***	18. 45	·1063					
17. 37	9. 0	20. 48	·1053					
	***		***					
18. 32	10. 45	21. 0	·1046					
	***		***					
20. 2	6. 30	22. 47	·1034					
20. 13	7. 55	22. 56	.1022					
20. 43	5. 0		***					
20. 53	7. 40	23. 30	·1028					
21. 18	5. 25		***					
21. 52	8. 15	23. 59	·1044					
22. 6	7. 20							
22. 13	8. 25							
22. 26	8. 15							
22. 54	12. 15							
23. 57	16. 0							
June19		June19		June19				
0. 13	22. 16. 35	0. 0	·1044	0. 25	·01240			
	***		***	3. 50	·01252			
0. 56	20. 50	1. 4	·1040	5. 1	·01			
	***	1. 29	·1015	10. 2	·01325			
1. 23	21. 0	2. 0	·1032	11. 35	·01415			
2. 0	23. 50	2. 10	·1027	12. 15	·01			
	***	2. 45	·1035	20. 0	·01582			
2. 56	22. 45	2. 53	·1030	23. 59	·01517			
	***	3. 5	·1039					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June19	° ′ ″	June19		h m		h m	°	°
h m		h m						
3. 48	22. 18. 30	3. 30	·1032					
	***	3. 37	·1038					
5. 43	15. 30	3. 40	·1034					
6. 53	10. 30	3. 45	·1038					
9. 49	10. 40	3. 50	·1034					
10. 3	9. 45	4. 0	·1047					
10. 32	13. 55		***					
11. 4	10. 20	4. 40	·1046					
12. 14	9. 0		***					
13. 17	9. 45	5. 4	·1061					
14. 25	8. 0	5. 13	·1054					
14. 47	15. 10	5. 40	·1054					
15. 33:	8. 25		***					
16. 18	9. 50	6. 12	·1043					
	***		***					
17. 47	5. 50	8. 0	·1068					
	***	9. 50	·1057					
19. 0	5. 50	10. 30	·1068					
19. 31	3. 10	10. 53	·1054					
20. 35	2. 35	11. 15	·1062					
21. 20	4. 50	12. 45	·1058					
21. 54	8. 15	13. 13	·1066					
23. 36	12. 0	13. 30	·1062					
23. 59	13. 45		***					
		19. 14	·1052					
		19. 50	·1038					
		21. 30	·1056					
		22. 35	·1024					
		22. 45	·1029					
		22. 53	·1024					
			***					
		23. 59	·1030					
June20		June20		June20		June20		
0. 5	22. 14. 0	0. 0	·1030	0. 30	·01480	1. 40	61 ·8	62 ·5
1. 40	18. 30	1. 30	·1038	3. 51	·01165	3. 40	63 ·0	63 ·7
2. 1	21. 30	1. 40	·1040		***	9. 40	64 ·0	67 ·0
	***	1. 53	·1056	5. 25	·00805	21. 40	59 ·8	61 ·0
3. 57	16. 30		***		(†)			
4. 8	17. 30	2. 16	·1054	12. 47	·00885			
4. 20	16. 20	2. 30	·1046	18. 25	·01632			
4. 32	17. 0	2. 38	·1051	18. 29	·01615			
4. 43	14. 35	2. 44	·1046	20. 55	·01530			
4. 52	17. 0	2. 57	·1051	22. 40:	·01520			
5. 2	14. 30	3. 10	·1044	23. 59:	·01380			
5. 12	15. 35	3. 40	·1055					
5. 36	13. 0		***					
5. 43	15. 30	4. 0	·1047					
5. 47	13. 15	4. 15	·1064					
5. 56	14. 50	4. 25	·1052					
6. 47	9. 50	4. 34	·1066					
7. 20	10. 20	4. 47	·1046					
8. 13	22. 8. 30	4. 58	·1072					
8. 26	21. 58. 20	5. 9	·1052					
8. 38	22. 3. 30	5. 16	·1078					
9. 13	8. 0	5. 26	·1060					
10. 10	6. 45		***					
	***	5. 34	·1063					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June20	° ′ ″	June20		h m		h m	°	°
h m		h m						
12. 4	22. 11. 10	5. 42	·1040					
	***	5. 50	·1086					
15. 0	8. 40	5. 53	·1060					
15. 17	11. 20	6. 0	·1080					
15. 31	9. 0	6. 15	·1058					
	***	6. 21	·1056					
17. 17	11. 30	6. 30	·1051					
17. 44	10. 5	6. 47	·1061					
17. 50	11. 0	6. 55	·1056					
18. 32	7. 30	7. 0	·1065					
	***	7. 13	·1052					
20. 8	4. 30		***					
20. 56	5. 0	7. 53	·1072					
21. 6	7. 0	8. 0	·1068					
21. 28:	5. 5	8. 5	·1074					
22. 10	14. 0		***					
23. 17	9. 15	8. 18	·1064					
23. 59	12. 25	8. 28	·1096					
		9. 27	·1042					
		9. 45	·1040					
		10. 3	·1052					
		10. 15	·1049					
			***					
		11. 50	·1052					
		12. 0	·1054					
		13. 4	·1052					
		13. 55	·1059					
		14. 25	·1054					
			***					
		15. 53	·1058					
		16. 45	·1056					
		17. 20	·1050					
		19. 25	·1058					
		21. 0	·1048					
		22. 9	·1030					
		22. 15	·1032					
			***					
		23. 0	·1022					
			***					
		23. 30	·1024					
		23. 59	·1030					
June21		June21		June21		June21		
0. 28	22. 12. 30	0. 15	·1023	0. 14:	·00770	1. 40	64 ·0	66 ·0
0. 40	14. 25	0. 37	·1028	0. 55	·00600	3. 40	64 ·5	66 ·7
	***	1. 45	·1034	3. 51	·00807	9. 40	64 ·5	67 ·3
3. 37	15. 50	1. 53	·1030		***	21. 40	58 ·0	60 ·0
4. 28	17. 50	2. 5	·1032	9. 17	·00840			
	***	2. 23	·1052	12. 20	·00892			
5. 8	13. 5		***	14. 13:	·01090			
	***	2. 40	·1046	16. 29	·01508			
5. 25	14. 0	3. 30	·1054	19. 25:	·01440			
5. 51	11. 30	3. 38	·1070	22. 2	·01480			
	***	3. 50	·1064	22. 8	·01330			
12. 2	10. 5		***	23. 59	·01163			
	***	4. 27	·1068					
12. 14	10. 30	4. 45	·1036					
12. 32	6. 40		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. reduced for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. reduced for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 21		June 21						
h m	° ′ ″	h m		h m		h m	°	°
13. 7	22. 4. 45	5. 13	·1016					
14. 6	8. 20		***					
14. 55	9. 5	5. 55	·1044					
16. 6	7. 0	6. 30	·1050					
	***	6. 40	·1066					
16. 52	9. 20		***					
18. 2	5. 20	8. 0	·1060					
	***	9. 13	·1061					
20. 25	6. 0	9. 20	·1068					
20. 57	7. 20	9. 45	·1061					
22. 12	11. 15	10. 17	·1060					
23. 59	14. 20	10. 35	·1049					
		10. 52	·1054					
		12. 4	·1052					
		12. 20	·1068					
		12. 35	·1062					
		13. 30	·1050					
		15. 0	·1048					
			***					
		16. 0	·1054					
		19. 45	·1056					
		21. 0	·1047					
		23. 10	·1042					
		23. 55	·1043					
June 22		June 22		June 22		June 22		
0. 8	22. 15. 0	0. 15	·1040	0. 45	·00950	1. 40	62 ·4	63 ·0
0. 33	17. 0	0. 50	·1022	2. 25	·00660	3. 40	63 ·5	65 ·5
0. 52	28. 0	1. 15	·1038	5. 9	·00847	9. 40	64 ·5	66 ·0
1. 25	21. 0	2. 29	·1044	7. 30	·00840	21. 40	61 ·0	63 ·5
1. 45	19. 20	2. 53	·1056	7. 31	·00900			
2. 53	18. 45	3. 34	·1052	7. 36	·00860			
4. 50	14. 0	3. 56	·1056	7. 45	·00870			
5. 7	14. 40		***	7. 53	·00840			
6. 24	10. 15	4. 50	·1048	8. 25	·00880			
7. 27	9. 30	5. 20	·1060	9. 41	·00865			
7. 30	13. 0	6. 20	·1050	10. 14	·00791			
7. 37	9. 40	7. 25	·1062	10. 25	·00806			
7. 45	22. 11. 30	7. 30	·1052	10. 30	·00683			
8. 17	21. 56. 10	7. 33	·1101	10. 34	·00710			
9. 0	22. 6. 35	7. 38	·1086	10. 58	·00803			
9. 20	3. 50	7. 43	·1066	11. 15	·00725			
9. 36	5. 40	7. 52	·1080		***			
9. 42	3. 15		***	13. 18	·00790			
9. 45	6. 0	8. 23	·1066	14. 35	·00705			
10. 1	22. 6. 45	8. 57	·1066	17. 28	·01215			
10. 21	21. 40. 30		***	20. 48	·01520			
10. 33	56. 0	9. 29	·1082	23. 59	·01451			
10. 50	21. 33. 25	9. 50	·1074					
11. 16	22. 3. 0	10. 14	·1042					
11. 33	2. 10	10. 23	·1102					
11. 37	4. 0	10. 30	·1056					
11. 46	1. 35	10. 34	·1076					
12. 2	4. 0		***					
	***	10. 45	·1044					
12. 13	1. 50	10. 55	·1112					
	***		***					
12. 50	5. 10	11. 28	·1042					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. reduced for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. reduced for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 22		June 22						
h m	° ′ ″	h m		h m		h m	°	°
13. 14	22. 5. 45	11. 33	·1056					
	***		***					
13. 39	21. 59. 15	11. 45	·1032					
14. 1	22. 13. 25	11. 54	·1050					
14. 28	6. 10		**					
14. 40	7. 35	12. 8	·1036					
14. 53	22. 1. 0	12. 17	·1046					
15. 22	21. 59. 0	12. 26	·1040					
15. 51	22. 3. 40	12. 29	·1040					
15. 58	1. 10	12. 34	·1044					
16. 2	3. 0	12. 40	·1054					
	***	12. 50	·1046					
17. 7	4. 45	13. 10	·1057					
17. 47	4. 0	13. 15	·1046					
	***	13. 20	·1058					
17. 58	5. 30		***					
	***	13. 53	·1022					
18. 20	2. 55		***					
	***	14. 14	·1030					
19. 2	6. 0	14. 40	·0994					
19. 4	2. 40		***					
	***	15. 14	·1046					
19. 18	5. 5		***					
	***	15. 45	·1050					
20. 13	4. 35		***					
20. 25	6. 40	16. 13	·1040					
20. 30	2. 20	16. 30	·1040					
	***	16. 38	·1046					
20. 52	7. 45	16. 43	·1040					
21. 9	6. 0		***					
21. 22	8. 30	18. 0	1040					
21. 35	7. 30	18. 8	·1036					
	***	18. 13	·1040					
23. 55	12. 15		***					
	***	21. 8	·1022					
		22. 10	·1012					
			***					
		23. 55	·1028					
June 23		June 23		June 23		June 23		
0. 2	22. 12. 50	0. 0	·1030	0. 18	·01415	1. 40	64 ·5	66 ·0
	***	0. 5	·1032	1. 36	·01215	3. 40	67 ·0	69 ·5
0. 32	13. 10	0. 20	·1026	2. 48	·00940	9. 40	70 ·0	72 ·0
2. 10	17. 10	1. 52	·1030	7. 51	·01068	21. 40	64 ·0	65 ·5
4. 20	15. 20		***	9. 45	·01045			
5. 25	12. 15	2. 30	·1024	14. 1	·01368			
9. 30	10. 20	3. 15	·1042	15. 55	·01728			
9. 52	8. 10	3. 30	·1033	20. 5	·01664			
10. 35	9. 10	3. 45	·1038	22. 30	·01632			
11. 20	6. 50		***	23. 59	·01375			
12. 43	8. 30	5. 15	·1032					
15. 53	7. 30		***					
16. 18	9. 30	7. 50	·1048					
17. 51	7. 25		***					
	***	8. 30	·1036					
20. 47	6. 25	9. 50	·1041					
22. 20	8. 0	11. 3	·1031					
23. 30	11. 30	11. 23	·1044					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June23		June23						
h m	° ′ ″	h m		h m		h m		
23. 59	22. 11. 40	11. 55	·1036					
		18. 13	·1045					
		18. 23	·1041					
		19. 24	·1046					
		23. 8	·1012					
		23. 59	·1016					
June24		June24		June24		June24		
0. 5	22. 11. 40	0. 0	·1015	1. 13	·01040	1. 40	70 ·0	73 ·0
0. 38	11. 40	1. 15	·1020	6. 17	·01072	3. 40	74 ·0	77 ·0
0. 51	13. 25		***	7. 53	·01142	9. 40	76 ·5	78 ·0
2. 13	14. 40	2. 0	·1022	9. 35	·01175	21. 40	66 ·3	68 ·0
3. 3	13. 0	2. 10	·1028	9. 52	·01225			
3. 54	12. 40	2. 26	·1013	11. 46:	·01400			
4. 57	10. 0	2. 45	·1022	14. 25	·01840			
7. 7	8. 0	3. 8	·1013	17. 38	·01812			
16. 13	7. 50	4. 23	·1024	23. 59	·01697			
17. 32	5. 55	10. 38	·1022					
21. 10	6. 20	17. 30	·1037					
22. 58	9. 25	21. 30	·1028					
23. 59	13. 0	22. 50	·1028					
		23. 5	·1034					
		23. 59	·1033					
June25		June25		June25		June25		
0. 2	22. 13. 0	0. 20	·1037	0. 35	·01710	1. 40	67 ·0	68 ·5
0. 48	16. 30	0. 50	·1034	3. 46:	·01645	3. 40	68 ·5	69 ·5
2. 17	20. 30	2. 0	·1035		***	9. 40	70 ·0	73 ·0
3. 15	20. 30	3. 25	·1051	10. 16:	·00980	23. 10	64 ·0	66 ·4
5. 22	14. 0		***	21. 22:	·01605			
6. 35	11. 30	4. 17	·1045	23. 17	·01643			
13. 13	7. 30	4. 22	·1050					
16. 28	8. 5		***					
18. 28	10. 35	6. 20	·1047					
20. 53	5. 0		***					
23. 59	12. 30	7. 11	·1051					
		7. 23	·1058					
		8. 27	·1044					
		9. 54	·1042					
		10. 3	·1046					
		10. 13	·1041					
			***					
		11. 34	·1040					
		12. 8	·1048					
		19. 18	·1042					
		23. 15	·1023					
		23. 59	·1026					
June26		June26		June26		June26		
0. 7	22. 13. 0	0. 0	·1026	0. 30	·01653	11. 2	66 ·0	68 ·0
1. 33	16. 30	1. 34	·1028		***	21. 40	63 ·0	66 ·0
1. 40	16. 0	1. 44	·1023	8. 0	·01552			
2. 0	16. 50	2. 4	·1038		***			
2. 23	15. 0		***	10. 45	·01710			
2. 31	18. 30	2. 20	·1036	10. 55	·01770			
2. 40	15. 30	2. 26	·1024		***			
3. 23	16. 30	3. 30	·1058	12. 34	{ ·01750			
4. 2	15. 40		***		{ ·01590			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June26		June26		June26				
h m	° ′ ″	h m		h m		h m	°	°
4. 36	22. 12. 0	3. 55	·1046	14. 23	·01722			
5. 1	11. 20	4. 13	·1056		***			
5. 35	12. 45	4. 30	·1042	19. 50	·01656			
	***		***	23. 59	·01475			
6. 4	15. 10	5. 0	·1054					
7. 1	12. 0	5. 15	·1046					
7. 40	14 20	5. 55	·1051					
8. 20	13. 0	6. 2	·1077					
8. 42	16. 0		***					
9. 2	13. 0	6. 13	·1076					
9. 13	13. 45	6. 20	·1096					
9. 23	12. 25	6. 44	·1038					
9. 31	13. 0	6. 56	·1038					
10. 4	10. 0	7. 4	·1051					
10. 17	22. 9. 20	7. 10	·1047					
10. 30	21. 58. 25	7. 20	·1056					
	***	7. 55	·1060					
11. 27	22. 8. 0	8. 3	·1050					
	***		***					
12. 39	7. 45	8. 38	·1082					
12. 52	9. 40		***					
13. 25	8. 0	8. 53	·1065					
13. 34	8. 55		***					
13. 46	8. 0	9. 14	·1076					
14. 20	11. 30	9. 17	·1068					
14. 29	7. 25		***					
14. 35	10. 25	9. 48	·1078					
14. 46	6. 10		***					
	***	10. 24	·1062					
15. 8	9. 0	10. 38	·1092					
15. 16	7. 20	10. 45	·1062					
15. 32	7. 0	10. 53	·1084					
15. 47	8. 35	11. 7	·1076					
16. 30	1. 5	11. 20	·1092					
16. 45	6. 5	11. 26	·1078					
16. 52	5. 25	11. 30	·1086					
17. 2	8. 50	11. 40	·1060					
17. 17	8. 30	11. 46	·1075					
17. 21	10. 30		***					
17. 31	6. 45	12. 3	·1054					
17. 36	7. 50	12. 9	·1063					
17. 43	6. 5	12. 15	·1051					
17. 48	8. 5	12. 30	·1060					
17. 55	7. 0	12. 38	·1056					
17. 58	8. 30	12. 47	·1064					
18. 7	4. 45		***					
	***	13. 43	·1058					
19. 7	6. 45	13. 57	·1068					
19. 11	4. 30	14. 9	·1064					
19. 30	8. 0	14. 22	·1072					
19. 40	7. 50		***					
19. 46	5. 20	14. 36	·1063					
19. 58	9. 0	14. 38	·1074					
	***	14. 52	·1058					
20. 16	5. 0		***					
	***	15. 45	·1058					
20. 51	8. 30	16. 0	·1050					
21. 1	5. 20	16. 34	·1048					
	***	16. 53	·1037					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June26		June26						
h m	° ′ ″	h m		h m		h m	°	°
22. 52	22. 10. 0	17. 13	·1056					
	***		***					
23. 59	13. 30	18. 13	·1068					
		18. 20	·1053					
		18. 35	·1064					
		18. 40	·1058					
		18. 46	·1068					
			***					
		18. 53	·1056					
		19. 0	·1062					
		19. 38	·1050					
		19. 43	·1054					
		19. 46	·1048					
		19. 50	·1055					
			***					
		20. 10	·1042					
			***					
		21. 32	·1028					
			***					
		22. 45	·1024					
		22. 47	·1018					
		22. 53	·1026					
		23. 0	·1016					
		23. 4	·1026					
			***					
		23. 34	·1032					
		23. 47	·1019					
		23. 59	·1022					
June27		June27		June27		June27		
0. 5	22. 13. 30	0. 0	·1022	0. 8	·01467	1. 40	68 ·0	70 ·0
0. 30	13. 10	0. 13	·1025	2. 13	·01288	3. 40	69 ·5	72 ·3
	***	0. 30	·1023	4. 18	·00982	9. 40	70 ·0	72 ·5
1. 14	16. 0	1. 23	·1042	4. 51	·01020	21. 40	66 ·5	68 ·5
1. 38	14. 50	1. 35	·1020		***			
2. 19	17. 15	1. 56	·1036	8. 59	·01005			
3. 0	17. 10		***	9. 55	·00915			
3. 17	18. 5	2. 45	·1036	14. 4	·00986			
3. 30	16. 35	2. 53	·1031	16. 35	·01240			
4. 2	19. 10	3. 18	·1038		***			
4. 23	17. 0	3. 32	·1029	17. 5	·01242			
4. 31	18. 15	4. 9	·1056		***			
4. 45	14. 50	4. 28	·1030	22. 50	·01706			
5. 0	14. 30	4. 55	·1052	23. 5	·01625			
5. 12	16. 0	5. 2	·1046	23. 59	·01603			
	***	5. 15	·1060					
5. 52	13. 45		***					
6. 12	16. 10	5. 38	·1048					
6. 25	14. 10	5. 46	·1054					
6. 33	15. 30	6. 4	·1050					
7. 1	10. 30	6. 23	·1066					
7. 10	11. 40	6. 45	·1054					
7. 25	10. 30	7. 0	·1068					
7. 50	12. 20	7. 14	·1055					
8. 34	7. 50		***					
9. 2	11. 50	7. 33	·1062					
9. 13	16. 50	8. 0	·1045					
9. 26	13. 25		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June27		June27						
	° ′ ″			h m		h m	°	°
9. 38	22. 17. 0	8. 40	·1055					
10. 9	21. 57. 50	8. 50	·1052					
10. 35	22. 2. 40	9. 4	·1070					
10. 54	21. 59. 0	9. 18	·1046					
11. 14	22. 2. 40	9. 30	·1062					
11. 33	21. 59. 10	9. 45	·1046					
12. 9	22. 7. 10	10. 14	·1066					
12. 29	5. 0		***					
12. 57	6. 15	10. 44	·1041					
13. 23	5. 10	11. 5	·1043					
13. 35	1. 40	11. 30	·1030					
	***	12. 8	·1023					
14. 7	6. 10	12. 36	·1048					
14. 19	14. 15	12. 56	·1038					
15. 27	10. 40	13. 15	·1046					
16. 22	4. 55	13. 45	·1023					
16. 35	8. 10	14. 15	·1016					
16. 40	8. 0	14. 40	·1035					
16. 54	11. 0		***					
17. 17	7. 25	16. 25	·1050					
	***	16. 35	·1058					
18. 21	11. 0	16. 43	·1052					
	***	16. 50	·1056					
19. 20	5. 0	17. 15	·1024					
19. 44	8. 5		***					
19. 51	6. 5	18. 50	·1038					
20. 0	8. 0		***					
20. 22	5. 30	20. 20	·1022					
20. 47	10. 0	20. 30	·1026					
	***	21. 16	·0998					
21. 58	9. 0	21. 34	·1002					
22. 15	11. 10	21. 57	·0986					
22. 25	11. 0	22. 45	·1008					
22. 50	15. 50		***					
23. 59	14. 30	23. 59	·1014					
June28		June28		June28		June28		
0. 10	22. 15. 45	0. 0	·1014	0. 20	·01[illegible]2	1. 40	[illegible]	70 ·5
0. 56	19. 30	0. 14	·1019	3. 38	·01517	3. 40	[illegible]	72 ·3
1. 57	15. 50	1. 10	·1012		***	9. 40	[illegible]	72 ·3
	***	2. 40	·1031	5. 24	·01382	21. 40	[illegible]	68 ·2
3. 17	15. 50	2. 58	·1021		***			
3. 32	18. 25	3. 15	·1023	7. 13	·01320			
3. 53	16. 30	3. 33	·1040	8. 37	·01241			
4. 8	17. 10	3. 43	·1032	10. 1	·01197			
4. 32	13. 0		***	11. 7	·01175			
6. 16	16. 50	4. 15	·1030	14. 57	·01193			
6. 40	4. 30	4. 33	·1054	19. 23	·01700			
7. 15	12. 10	5. 15	·1037	23. 35	·01695			
7. 53	13. 55		***					
8. 25	12. 50	6. 4	·1061					
9. 3	14. 30	6. 28	·1028					
9. 45	5. 30	7. 0	·1079					
10. 1	9. 10		***					
10. 15	2. 10	7. 50	·1046					
10. 28	11. 30		***					
11. 6	7. 30	8. 45	·1044					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
June28		June28						
h m	° ′ ″	h m		h m		h m	°	°
11. 18	22. 9. 30	9. 0	·1053					
11. 35	8. 10	9. 23	·1048					
12. 13	11. 0	9. 55	·1060					
12. 29	8. 30	10. 6	·1046					
	***	10. 20	·1082					
12. 58	14. 0	10. 36	·1056					
	***	10. 50	·1056					
13. 51	11. 50	11. 3	·1044					
	***	11. 15	·1044					
14. 31	14. 35	11. 38	·1030					
16. 21	7. 50	12. 0	·1038					
	***	12. 45	·1024					
16. 52	10. 30	13. 25	·1040					
	***	13. 50	·1032					
17. 18	7. 25	14. 0	·1040					
17. 36	9. 0	14. 10	·1033					
17. 46	7. 45	14. 20	·1040					
	***	14. 27	·1034					
19. 35	9. 0	14. 30	·1038					
	***	14. 40	·1032					
19. 56	6. 10		***					
	***	16. 8	·1041					
20. 57	9. 20	16. 30	·1034					
	***	17. 25	·1041					
21. 17	6. 30		***					
21. 28	13. 50	18. 15	·1038					
21. 57	10. 30	19. 0	·1022					
22. 40	9. 10		***					
	***	20. 10	·1024					
23. 36	12. 10	20. 38	·1015					
		21. 0	·1022					
		22. 0	·1006					
		22. 55	·1017					
			***					
		23. 30	·1018					
June29		June29		June29		June29		
0. 2	22. 12. 40	0. 0	·1020	0. 0	·01670	1. 40	69 ·0	70 ·0
0. 40	14. 40	0. 40	·1025	2. 0:	·01438	5. 40	70 ·5	72 ·0
1. 46	15. 15	1. 0	·1022	4. 30	·01000	9. 40	71 ·0	72 ·6
5. 37	11. 10		***	6. 30	·01067	21. 40	62 ·0	65 ·0
6. 28	11. 40	2. 40	·1036	10. 31:	·01005			
7. 13	9. 35	3. 55	·1025	13. 36:	·01175			
	***	4. 45	·1037	16. 14	·01658			
8. 25	10. 0		***	22. 46	·01700			
8. 45	8. 50	5. 55	·1036	23. 59	·01602			
8. 58	10. 0	6. 5	·1044					
9. 10	7. 10	6. 35	·1038					
9. 15	8. 10	7. 25	·1036					
9. 38	5. 50	7. 40	·1048					
11. 24	11. 0	8. 0	·1050					
11. 58:	8. 20	8. 14	·1043					
12. 38	14. 0		***					
12. 48	12. 0	9. 18	·1038					
13. 27	11. 40	9. 54	·1040					
14. 14:	5. 50	10. 40	·1028					
15. 16	13. 15	11. 15	·1037					
15. 28	11. 25	11. 25	·1036					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June29		June29						
h m	° ′ ″	h m		h m		h m	°	°
15. 47	22. 12. 10	11. 45	·1035					
16. 28	8. 0	12. 40	·1033					
17. 48	6. 35	13. 28	·1050					
	***	14. 17	·1038					
19. 2	8. 10	14. 30	·1028					
	***	15. 15	·1038					
19. 43	6. 0	15. 45	·1029					
22. 12	9. 0	16. 26	·1040					
23. 59	14. 0	16. 45	·1037					
		17. 15	·1045					
			***					
		18. 28	·1034					
		18. 56	·1042					
		20. 45	·1022					
		21. 55	·1028					
		23. 25	·1022					
		23. 59	·1030					
June30		June30		June30		June30		
0. 7	22. 14. 45	0. 0	·1030	0. 20	·01560	1. 40	69 ·0	72 ·0
1. 0	15. 10	0. 20	·1028	2. 29	·01330	3. 40	69 ·0	72 ·0
1. 40	15. 0	0. 45	·1029		·01285	9. 40	70 ·0	72 ·7
4. 17	10. 15	1. 35	·1022	4. 2	·00980	21. 40	60 ·0	62 ·0
5. 45	14. 0	2. 35	·1036	5. 52:	·01025			
8. 37	10. 30	3. 8	·1034	10. 0:	·00975			
9. 1	7. 50	3. 27	·1042	13. 27:	·01235			
9. 52	9. 0	3. 45	·1033	15. 44	·01658			
10. 28	7. 30	4. 2	·1043	16. 6	·01625			
11. 16	10. 0			19. 15	·01581			
12. 12	10. 25	5. 40	·1038	22. 38	·01613			
12. 23	8. 55	6. 15	·1046	23. 59	·01540			
12. 37	10. 35	7. 23	·1037					
	***		***					
14. 58	6. 10	8. 30	·1044					
15. 12	8. 50	9. 0	·1040					
15. 48	10. 0	9. 30	·1045					
16. 30	6. 10	10. 35	·1038					
17. 37	4. 30	11. 40	·1036					
19. 23	4. 35		***					
	***	12. 45	·1048					
21. 9	6. 45	13. 20	·1044					
21. 31	6. 0	13. 44	·1048					
23. 59	11. 40	15. 14	·1038					
		15. 50	·1050					
		18. 53	·1048					
		19. 25	·1038					
		22. 25	·1016					
		22. 35	·1020					
		23. 0	·1016					
		23. 59	·1024					
July 1		July 1		July 1		July 1		
0. 5	22. 11. 45	0. 0	·1024	0. 15	·01518	1. 40	66 ·6	68 ·0
2. 38	16. 30	1. 4	·1024	1. 53	·01340	3. 40	66 ·0	68 ·0
3. 42	14. 10	1. 55	·1034	3. 26	·01075	9. 40	66 ·5	68 ·5
5. 12	13. 45	2. 7	·1030	5. 28	·00870	21. 40	60 ·0	63 ·0
6. 7	6. 0		***		***			
7. 15	10. 0	3. 34	·1034	6. 34	·00908			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : atttached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. increased for Temperature 55°.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. increased for Temperature 55°.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 1		July 1		July 1				
h m	° ′ ″	h m		h m		h m		
9. 7	22. 11. 15	4. 2	·1050	12. 22:	·00955			
13. 5	9. 20			17. 47	·01602			
15. 45	10. 25	5. 0	·1044	18. 10	·01570			
18. 30	6. 30	5. 9	·1048	20. 50	·01523			
	***	5. 50	·1052	23. 27	·01535			
19. 46	7. 30		***					
	***	6. 40	·1074					
20. 8	5. 0	7. 20	·1042					
20. 31	7. 10		***					
21. 20	6. 30	8. 15	·1048					
23. 59	12. 0	9. 8	·1044					
		12. 28	·1048					
		13. 30	·1038					
			***					
		19. 35	·1045					
		22. 0	·1034					
		23. 30	·1020					
		23. 59	·1023					
July 2		July 2		July 2		July 2		
0. 10	22. 12. 5	0. 10	·1026	0. 0	·01518	1. 40	61 ·0	63 ·5
2. 2	18. 0	1. 10	·1041	1. 40	·01393	3. 40	63 ·5	66 ·0
2. 12	17. 15	2. 30	·1042	3. 13	·01192	9. 40	65 ·0	67 ·0
2. 53	19. 0	2. 53	·1052		***	23. 20	63 ·0	65 ·0
3. 22	16. 5	3. 20	·1032	7. 28	·00878			
3. 51	17. 5	3. 53	·1064	9. 40	·00846			
4. 34	13. 30	4. 17	·1046	10. 25	·00768			
5. 0	15. 0	4. 45	·1071	14. 23	·00943			
7. 13	7. 50	5. 14	·1056	20. 2	·01543			
8. 48	10. 0	5. 35	·1079	20. 16	·01525			
9. 23	7. 10	5. 47	·1066	22. 49:	·01498			
9. 38	14. 30		***	23. 59:	·01400			
9. 46	11. 0	6. 5	·1070					
10. 5	9. 0	6. 25	·1056					
10. 34	2. 0		***					
12. 28	7. 45	8. 15	·1049					
13. 1	5. 35	8. 30	·1042					
13. 23	8. 0	9. 4	·1042					
13. 52	7. 10		***					
14. 12	8. 35	9. 40	·1052					
14. 53	6. 30	9. 45	·1046					
15. 28	9. 0	10. 0	·1050					
17. 22	7. 35	10. 26	·1035					
18. 18	3. 5	10. 43	·1042					
	***	11. 10	·1035					
21. 1	3. 10	11. 30	·1043					
23. 59	13. 50	12. 36	·1035					
		13. 3	·1038					
		13. 20	·1036					
		14. 0	·1046					
		15. 20	·1035					
			***					
		17. 21	·1043					
		18. 50	·1032					
		20. 8	·1014					
			***					
		21. 37	·1012					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. increased for Temperature 55°.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. increased for Temperature 55°.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		July 2						
h m	° ′ ″	h m		h m		h m		
		23. 40	·1020					
		23. 55	·1016					
			***					
July 3		July 3		July 3		July 3		
0. 30	22. 15. 40	0. 15	·1024	0. 30	·01342	10. 20	68 ·0	71 ·0
1. 42	17. 0	0. 25	·1021	1. 17:	·01220	21. 40	63 ·5	64 ·3
5. 53	7. 0		***	2. 47	·00853			
9. 0	7. 30	1. 23	·1020	2. 58	·00882			
9. 13	6. 30		***	5. 38	{·00973 ·01660}			
11. 47	9. 0	2. 15	·1033					
19. 50	6. 0	2. 34	·1028	6. 17	·00971			
21. 31	6. 50	3. 45	·1038	8. 17	·00922			
23. 59	15. 5		***	11. 8	·00938			
		5. 57	·1036	15. 0:	·01180			
			***	18. 25	·01660			
		7. 20	·1044	22. 53	·01620			
		7. 53	·1038	23. 59:	·01522			
			***					
		8. 42	·1048					
		9. 5	·1040					
		9. 30	·1048					
		11. 25	·1038					
		12. 0	·1042					
		13. 0	·1037					
		18. 35	·1040					
		19. 12	·1036					
		19. 40	·1024					
		23. 20	·1012					
		23. 59	·1016					
July 4		July 4		July 4		July 4		
0. 31	22. 15. 35	0. 15	·1017	0. 15	·01465	1. 40	70 ·0	70 ·5
5. 52	8. 35	4. 40	·1026	2. 35	·01010	3. 40	70 ·0	73 ·0
10. 18	8. 45	4. 47	·1031	3. 36	·01038	9. 40	72 ·0	75 ·0
15. 36	8. 20	6. 34	·1032	7. 0	·01030	21. 40	65 ·5	67 ·5
18. 10	5. 20	7. 47	·1041	7. 5	·01118			
20. 0	4. 30	8. 45	·1036	8. 20:	·01080			
22. 23	8. 50	18. 35	·1040	10. 44:	·01142			
23. 59	14. 10	21. 45	·1021	15. 20	·01720			
		23. 30	·1030	23. 30	·01640			
		23. 34	·1032					
		23. 55	·1036					
July 5		July 5		July 5		July 5		
0. 10	22. 14. 30	0. 10	·1034	0. 0	·01621	1. 40	67 ·5	70 ·0
1. 29	16. 0	2. 37	·1046	2. 50:	·01508	3. 40	70 ·5	72 ·0
5. 4	10. 30	5. 50	·1043	5. 36	·00997	9. 49	72 ·0	74 ·2
8. 25	8. 30	6. 30	·1047	6. 14:	·01025	21. 40	65 ·0	68 ·0
9. 47	10. 25	6. 40	·1043	7. 48:	·01004			
12. 50	8. 0	9. 5	·1036	9. 25:	·01032			
13. 36	6. 25	10. 16	·1041	12. 52:	·01132			
	***		***	17. 2	·01738			
15. 18	6. 40	13. 0	·1045	21. 57	·01600			
15. 58	8. 30	13. 4	·1037	23. 59:	·01550			
18. 40	4. 0	13. 13	·1044					
23. 20	11. 30	13. 34	·1042					
23. 59	13. 30		***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 5		July 5						
h m	° ′ ″	h m		h m		h m	°	
		14. 20	·1046					
		18. 30	·1040					
		21. 10	·1024					
		23. 0	·1030					
			***					
		23. 59	·1030					
July 6		July 6		J 6		July 6		
0. 5	22. 13. 40	0. 0	·1030	0. 35:	·01480	1. 40	71 ·4	74 ·0
1. 13	15 30		***	2. 40	·01060	3. 40	72 ·0	74 ·5
2. 52	16 30	1. 30	·1033	6. 10	·01006	10. 17	75 ·8	77 ·0
5. 46	11. 30	1. 55	·1035	10. 52:	·01075	21. 40	68 ·0	70 ·0
7. 10	10. 0	2. 7	·1028	14. 50:	·01440			
13. 46	9. 30	5. 30	·1030	16. 57	·01820			
17. 2	6. 35	7. 15	·1034	17. 15	·01748			
18. 29	3. 10		***	22. 16	·01730			
19. 42	3. 0	8. 40	·1035	23. 59:	·01608			
22. 17	7. 0	8. 46	·1046					
23. 59	12. 30	9. 17	·1038					
			***					
		13. 0	·1040					
		14. 20	·1046					
		15. 53	·1040					
		17. 0	·1042					
		19. 20	·1037					
		23. 13	·1020					
		23. 59	·1020					
July 7		July 7		July 7		July 7		
0. 35	22. 14. 0	0. 15	·1020	0. 30:	·01575	1. 40	70 ·0	73 ·0
2. 50	14. 5	1. 15	·1026	2. 48	·01100	3. 40	76 ·5	79 ·0
3. 40	12. 15	1. 44	·1033	4. 1	·01152	9. 40	79 ·5	80 ·7
9. 8	8. 20	4. 35	·1031	8. 37	·01115	21. 40	72 ·8	73 ·0
10. 58	10. 10	7. 30	·1034	9. 42	·01148			
17. 7	7. 0	8. 35	·1029	10. 35	·01136			
17. 30	5. 20	16. 15	·1034	13. 1:	·01232			
20. 5	3. 30	17. 45	·1042	17. 12	·01860			
20. 33	5. 0	20. 0	·1034	21. 2	·01742			
21. 6:	4. 30	21. 40	·1032	23. 59	·01738			
21. 33	7. 40	22. 14	·1040					
21. 44	6. 45		***					
23. 59	15. 0	23. 50	·1033					
July 8		July 8		July 8		July 8		
0. 43	22. 17. 25	0. 0	·1038	0. 20	·01725	1. 40	74 ·0	77 ·0
1. 55	20. 5		***	1. 50	·01627	3. 40	76 ·0	78 ·5
2. 47	18. 0	0. 30	·1033	5. 8	·01122	9. 40	79 ·5	82 ·3
3. 57	18. 5	0. 45	·1040	6. 38	·01162	21. 40	70 ·7	74 ·0
4. 12	19. 20	1. 0	·1041	11. 15	·01082			
5. 15	12. 50	1. 15	·1044	14. 5:	·01355			
6. 2	11. 0	1. 44	·1040	16. 53	·01782			
8. 22	9. 20	2. 20:	·1024	23. 59	·01634			
10. 13	10. 20	3. 10:	·1045					
12. 55	9. 0	3. 50	·1032					
16. 4	10. 0	4. 10	·1042					
16. 41	8. 0	4. 50	·1010					
17. 3	9. 0	5. 35	·1024					
17. 58	5. 50	7. 20	·1030					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 8		July 8						
h m	° ′ ″	h m		h m		h m	°	
19. 4	22. 4. 10	8. 35	·1024					
21. 33	5. 40	10. 45	·1023					
23. 57	14. 20	11. 15	·1027					
		19. 20	·1036					
		21. 40	·1028					
		22. 30	·1031					
		23. 5	·1026					
		23. 59	·1026					
July 9		July 9		July 9		July 9		
0. 3	22. 14. 30	0. 5	·1024	0. 15	·01638	1. 40	70 ·0	73 ·0
2. 23	18. 5	1. 0	·1030	1. 43	·01665	3. 40	71 ·8	73 ·7
6. 24	11. 0	3. 8	·1032	8. 37:	·01448	9. 40	72 ·0	73 ·0
8. 52	11. 35	3. 17	·1042	12. 26	{ ·01765	23. 37	64 ·0	66 ·0
10. 20	8. 25	4. 3	·1028		{ ·01685			
12. 3	10. 40		***	13. 23	·01692			
13. 13	10. 20	4. 45	·1040	15. 15	{ ·01690			
13. 32:	12. 45	5. 15	·1036		{ ·01490			
13. 51	11. 0		***	16. 16	·01641			
14. 28	11. 35	8. 30	·1046	20. 30	·01646			
15. 5	9. 0	10. 8	·1028	23. 59	·01602			
15. 47	9. 25	12. 20	·1038					
17. 53	6. 30	12. 46	·1034					
19. 53	5. 15	13. 58	·1046					
23. 59	14. 0	15. 44	·1042					
		19. 32	·1045					
		22. 45	·1024					
		23. 13	·1028					
		23. 30	·1024					
		23. 59	·1024					
July 10		July 10		July 10		July 10		
0. 5	22. 14. 10	0. 0	·1024	0. 20	·01603	11. 36	67 ·0	69 ·0
1. 30	17. 50	0. 17	·1028	3. 0	·01507	21. 40	64 ·5	66 ·5
5. 20	13. 0	1. 30:	·1018	10. 36	·00986			
	***		***	12. 0	·00983			
8. 47	10. 40	3. 45	·1044	12. 20	·00918			
9. 19	5. 25	4. 3	·1053	15. 1	·01250			
10. 30	7. 30	4. 30	·1046	16. 40	{ ·01582			
10. 44	6. 0		***		{ ·01555			
11. 17:	10. 50	5. 30	·1054	19. 19	{ ·01590			
11. 50	8. 30	6. 10	·1068		{ ·01497			
12. 15	17. 0	6. 38	·1050	22. 0:	·01542			
13. 4	0. 30	7. 4	·1062	23. 59:	·01440			
13. 40:	3. 0	7. 45	·1048					
14. 6	1. 10		***					
14. 58	2. 30	8. 47	·1047					
15. 30	12. 0	9. 15	·1036					
16. 33	3. 0		***					
17. 48	3. 40	9. 53	·1033					
18. 23	2. 25	10. 20	·1038					
21. 10	8. 0	10. 40	·1032					
22. 27	13. 0	11. 4	·1040					
23. 59	16. 0	11. 50	·1032					
		12. 5	·1060					
		12. 57	·1023					
		14. 4	·1021					
		14. 34	·1032					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	July 10 h m		h m		h m	°	°
		15. 9	·1010					
		16. 4	·1043					
			***					
		18. 35	·1046					
		21. 57	·1016					
			***					
		23. 0	·1016					
		23. 52	·1024					
		23. 59	·1024					
July 11		July 11		July 11		July 11		
0. 37	22. 15. 30	0. 34	·1024	0. 20	·01413	1. 40	65 ·8	67 ·7
1. 28	17. 0	0. 58	·1031	4. 8	·01158	3. 40	67 ·5	68 ·5
3. 30	16. 30	1. 30	·1026	6. 40	·00848	9. 40	70 ·0	72 ·3
6. 40	11. 0	2. 17	·1030	10. 0	·00820	21. 40	63 ·0	66 ·0
9. 28	10. 40	3. 40	·1048	12. 35	·00823			
10. 15	12. 40	4. 4	·1044	15. 28	·00995			
11. 16	10. 10		***	20. 0	·01601			
11. 23	11. 10	7. 8	·1040	20. 30	·01565			
13. 8	9. 0		***	22. 44	·01570			
13. 50	9. 10	9. 53	·1042	23. 59	·01530			
14. 2	10. 40	10. 2	·1044					
14. 21	9. 0	11. 8	·1034					
15. 23	9. 30		***					
15. 29	10. 25	12. 34	·1032					
15. 44	8. 30	12. 55	·1034					
16. 58	9. 0	13. 50	·1032					
17. 10	7. 45		***					
18. 29	11. 30	16. 14	·1042					
	***		***					
19. 22	8. 30	18. 30	·1032					
	***	19. 30	·1014					
20. 0	12. 30	20. 20	·1026					
20. 42	9. 0	20. 47	·1016					
21. 42	11. 0	21. 35	·1021					
22. 8	8. 10	22. 23	·1010					
22. 43	15. 20	22. 45	·1024					
23. 24	14. 30	22. 58	·1013					
23. 35	12. 0	23. 30	·1014					
23. 57	13. 30	23. 43	·1026					
		23. 53	·1028					
July 12		July 12		July 12		July 12		
0. 12	22. 14. 30	0. 0	·1026	0. 35	·01460	1. 40	66 ·0	68 ·4
0. 35	17. 10	0. 5	·1024	1. 55	·01242	3. 40	70 ·0	72 ·0
1. 47	20. 15	1. 10	·1010	3. 19	·00922	10. 40	73 ·0	75 ·0
1. 54	24. 40	1. 17	·1014	4. 21	·00987	21. 40	64 ·0	66 ·0
2. 4	22. 25	1. 28	·1004	4. 29	·01040			
2. 28	22. 0	1. 45	·1010	4. 38	·00976			
2. 48	24. 40	1. 55	·1038		***			
3. 10	21. 0		***	6. 35	·01092			
3. 28	23. 20	2. 26	·1010	6. 54	·01168			
4. 6	15. 0		***	7. 2	·01156			
4. 24	17. 10	2. 50	·1040		***			
4. 28	21. 40	3. 8	·1022	7. 46	·01330			
4. 45	15. 0		***		***			
4. 48	18. 40	3. 30	·1042	8. 47	·01120			
5. 0	14. 10		***		***			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.
July 12		July 12		July 12			meters.
h m	° ′ ″	h m		h m		h m	
5. 13	22. 17. 0	3. 55	·1024	[illegible]	·01078		
5. 16	16. 0	4. 3	·1023	9. 55	[illegible]		
5. 33	20. 40	4. 15	·1048	10. 2	·01095		
5. 46	14. 20	4. 20	·1040	10. 23	·01080		
6. 1	19. 40	4. 29	·1126	10. 57	[illegible]		
6. 6	18. 25	4. 38	·1054	11. 2	[illegible]		
6. 18	22. 10		***	11. 18	[illegible]		
	***	4. 45	·1068		(†)		
6. 44	13. 35	4. 54	·1032	11. 37	·00255		
	***		***	11. 42	·00353		
7. 1	16. 40	5. 8	·1060	11. 47	·00292		
7. 13	10. 0	5. 15	·1050	11. 58	·00662		
7. 25	23. 15	5. 17	·1060		[illegible]		
7. 37	7. 50	5. 22	·1049	13. 20	·01155		
7. 56	16. 0		***		***		
	***	5. 25	·1056	13. 37	·01520		
8. 12	4. 35	5. 30	·1044	16. 2	·01508		
8. 33	13. 15	5. 34	·1052	16. 30	·01[illegible]		
8. 36	10. 15	5. 38	·1045	17. 13	·01380		
8. 47	18. 0	5. 50	·1091	18. 0	·01541		
9. 2	19. 25		***	18. 5	·01472		
9. 17	15. 20	6. 2	·1096	18. 7	·01522		
	***	6. 12	·1076	18. 11	·01467		
9. 54	15. 0	6. 16	·1086	18. 21	·01508		
	***	6. 32	·1020	18. 24	·01461		
10. 1	6. 30	6. 56	·1110	18. 26	·01485		
10. 4	13. 0	7. 15	·1070	18. 34	·014[illegible]		
10. 14	5. 45	7. 17	·1081	18. 38	·01490		
10. 29	1. 30	7. 30	·1026	21. 40	·01[illegible]		
10. 40	22. 13. 25	7. 34	·1036		***		
11. 3	21. 47. 30	7. 38	·1022	23. 59	·015[illegible]		
11. 7	51. 15	7. 45	·1080				
11. 10	21. 47. 0	7. 47	·1070				
11. 32	22. 41. 0	7. 52	·1080				
11. 35	22. 41. 0		***				
11. 45	21. 39. 10	8. 14	·1028				
11. 48	41. 30	8. 17	·1046				
11. 53	34. 35		***				
	***	8. 27	·1050				
12. 13	21. 51. 0	8. 33	·1044				
	***	8. 40	·1081				
12. 44	22. 7. 45	8. 49	·1064				
12. 47	5. 0	8. 55	·1076				
14. 55	9. 50	9. 8	·1053				
13. 2	2. 40		***				
13. 12	13. 0	9. 30	·1063				
13. 16	5. 15	9. 34	·1086				
13. 20	7. 30		***				
13. 28	2. 0	9. 46	·1072				
13. 34	9. 0	9. 54	·1086				
	***	9. 59	·1004				
13. 58	1. 35	10. 4	·1058				
14. 12	7. 50	10. 7	·1031				
14. 16	5. 30	10. 15	·1044				
14. 22	9. 40	10. 18	·1033				
14. 27	5. 15	10. 25	·1046				
14. 32	7. 50	10. 28	·1034				
14. 34	5. 0	10. 33	·1056				

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 12		July 12						
h m	° ′ ″	h m		h m		h m	°	°
14. 42	22. 8. 0	10. 59	·0958					
14. 51	4. 0	11. 4	·0984					
14. 55	4. 30	11. 8	·0966					
14. 58	0. 0	11. 10	·0974					
15. 7	5. 0	11. 14	·0964					
15. 11	3. 20	11. 20	·1020					
15. 13	4. 30	11. 32	·0978					
15. 21	0. 0	11. 44	·0994					
15. 28	4. 10	11. 49	·0976					
15. 30	2. 20	11. 55	·0991					
15. 34	22. 4. 35	11. 59	·0981					
15. 59	21. 57. 0	12. 2	·0991					
16. 21	22. 18. 5	12. 5	·0984					
16. 34	8. 0	12. 9	·0994					
16. 37	10. 0	12. 14	·0980					
16. 41	8. 0	12. 16	·0986					
16. 45	10. 0		***					
17. 4	4. 0	12. 45	·0996					
17. 8	10. 0	12. 47	·0986					
17. 14	2. 10	12. 53	·0998					
17. 38	22. 2. 0	12. 56	·0984					
17. 47	21. 56. 50	13. 8	·1005					
17. 53	22. 0. 0	13. 14	·0990					
17. 57	21. 57. 30	13. 18	·1013					
18. 3	22. 12. 0	13. 29	·0996					
18. 5	21. 57. 45	13. 32	·1006					
18. 7	22. 0. 20	13. 35	·0996					
18. 9	21. 53. 30		***					
18. 13	22. 2. 20	13. 48	·1004					
18. 15	21. 58. 15		***					
18. 17	22. 4. 30	14. 8	·1003					
18. 18	2. 0	14. 14	·0997					
18. 21	6. 30	14. 20	·1008					
18. 27	5. 20	14. 25	·0996					
	***	14. 30	·1008					
18. 33	6. 20	14. 34	·1000					
18. 38	8. 0		***					
	***	14. 40	·1008					
19. 33	2. 30	14. 46	·1002					
19. 44	8. 10	14. 55	·1004					
19. 46	7. 0	14. 58	·0996					
19. 48	8. 0	15. 4	·1004					
19. 52	7. 0	15. 8	·0996					
19. 53	9. 45		***					
19. 54	7. 10	15. 28	·1009					
19. 58	10. 30	15. 30	·1001					
20. 2	6. 30	15. 34	·1004					
20. 4	10. 25	16. 17	·0954					
20. 7	6. 0	16. 43	·1013					
20. 14	9. 20		***					
20. 18	4. 30	17. 10	·0986					
20. 21	7. 0		***					
20. 23	5. 10	17. 38	·0996					
20. 28	8. 10	17. 44	·0992					
20. 31	6. 0	18. 0	·1030					
	***	18. 4	·0984					
21. 22	5. 25		***					
21. 53	8. 20	18. 10	·0982					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 12		July 12						
h m	° ′ ″	h m		h m		h m	°	°
22. 0	22. 6. 30		***					
	***	18. 20	·1018					
22. 17	9. 15	18. 23	·0990					
22. 26	6. 35	18. 26	·1007					
22. 28	10. 0		***					
22. 32	7. 50	18. 53	·0982					
23. 43	13. 0		***					
23. 59	13. 30	19. 51	·0974					
		20. 0	·0978					
		20. 17	·0972					
			***					
		20. 28	·0982					
		20. 34	·0974					
			***					
		21. 34	·0990					
		22. 3	·0979					
		22. 13	·0982					
		22. 23	·0978					
		22. 29	·0982					
		22. 31	·0976					
			***					
		22. 47	·0981					
		22. 50	·0976					
		23. 10	·0984					
		23. 28	·0980					
		23. 34	·0986					
		23. 42	·0984					
		23. 59	·0986					
July 13		July 13		July 13		July 13		
0. 20	22. 14. 30	0. 10	·0988	0. 30:	·01563	1. 40	65 ·0	68 ·0
1. 6	15. 50	1. 30	·1012	2. 35:	·01330	3. 40	69 ·5	72 ·2
3. 23	14. 0	2. 9	·1006	4. 10	·00955	9. 40	71 ·5	73 ·0
6. 11	8. 30	2. 30	·1016	6. 14	·01038	21. 40	64 ·0	66 ·0
6. 35	9. 20	2. 46	·1012	8. 13	·01013			
6. 43	11. 45	3. 35	·1012	9. 20	·01020			
7. 6	8. 40		***	10. 21	·00944			
8. 8	11. 10	5. 55	·1013	14. 15:	·01162			
8. 47	10. 50		***	18. 2	·01672			
9. 15	3. 0	6. 30	·1022	22. 53	·01567			
10. 6	11. 20	6. 45	·1024	23. 59	·01573			
10. 18	9. 0	6. 53	·1046					
10. 36	9. 35	7. 5	·1026					
11. 2	5. 20		***					
11. 14	7. 15	7. 40	·1020					
11. 23	7. 0	7. 44	·1024					
11. 35	8. 50	8. 2	·1018					
11. 57	8. 50	9. 0	·1024					
12. 22	6. 0	9. 20	·1052					
13. 0	6. 30	9. 57	·1048					
13. 48	10. 30	10. 13	·1032					
14. 10	11. 0	10. 21	·1032					
14. 32	9. 0	10. 45	·1016					
15. 7	9. 0		***					
15. 15	10. 40	11. 15	·1012					
16. 17	7. 30		***					
19. 15	9. 0	11. 55	·1017					
19. 33	7. 50		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
July 13		July 13						
h m	° ′ ″	h m		h m		h m		
19. 54	22. 9. 30	12. 30	·1016					
20. 5	8. 0	12. 50	·1010					
21. 0	9. 0	13. 8	·1013					
23. 16	13. 0	13. 30	·1026					
23. 59	15. 20	13. 42	·1014					
			***					
		14. 9	·1012					
		15. 13	·1018					
		15. 15	·1013					
		15. 30	·1018					
			***					
		16. 32	·1015					
		19. 56	·1018					
		22. 8	·1010					
		23. 15	·1008					
			***					
		23. 59	·1012					
July 14		July 14		July 14		July 14		
0. 15	22. 16. 15	0. 20	·1012	0. 30	·01575	1. 40	66 ·0	68 ·0
2. 47	18. 35	1. 15	·1014	3. 2	·01602	3. 40	69 ·0	70 ·5
3. 8	18. 0		***		***	9. 40	63 ·5	66 ·0
3. 36	19. 30	3. 0	·1022	7. 35	·01622	21. 40	61 ·0	62 ·5
4. 12	17. 30		***	10. 5	·01630			
4. 17	20. 15	4. 3	·1044	14. 40	·01548			
4. 25	17. 40	4. 14	·1040	21. 0	·01525			
4. 47	16. 50	4. 25	·1048	22. 48	·01505			
4. 52	19. 30	5. 3	·1016	23. 30	·01470			
5. 7	14. 45	5. 18	·1032					
5. 20	15. 30	5. 24	·1024					
	***	5. 30	·1030					
6. 19	12. 0	5. 38	·1020					
6. 28	13. 10		***					
7. 5	12. 50	6. 14	·1045					
7. 43	14. 30	6. 15	·1040					
8. 16	12. 30	6. 20	·1046					
8. 43	14. 0	6. 25	·1038					
9. 31	11. 30	6. 31	·1057					
11. 35	11. 30	6. 49	·1054					
12. 0	10. 0	7. 4	·1040					
13. 8	12. 0	7. 14	·1064					
17. 13	9. 0	7. 23	·1050					
17. 42	11. 0	7. 30	·1063					
18. 0	9. 50	7. 50	·1048					
18. 6	11. 35	8. 14	·1048					
18. 13	8. 50	8. 30	·1054					
19. 52	8. 0	8. 58	·1042					
19. 57	10. 30	9. 25	·1036					
20. 16	8. 35		***					
21. 8	10. 30	11. 4	·1038					
21. 14	9. 0	11. 29	·1042					
21. 50	13. 0	12. 3	·1040					
22. 38	10. 15	13. 45	·1054					
23. 31	13. 30	18. 0	·1042					
		18. 4	·1050					
		18. 9	·1042					
		19. 40	·1046					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
July 13		July 13						
h m	° ′ ″	h m		h m		h m		
		20. 20	·1054					
		20. 30	·1040					
		21. 25	·1052					
		21. 42	·1021					
		22. 14	·1028					
		23. 4	·1031					
		23. 14	·1028					
		23. 28	·1028					
July 15		July 15		July 15		July 15		
0. 0	22. 14. 30	0. 13	·1052	0. 18	·01465	1. 40	63 ·5	65 ·0
1. 32	16. 45	1. 9	·1038	4. 20	·00838	3. 40	64 ·5	67 ·0
1. 42	15. 10		***	5. 52	·00800	9. 40	64 ·0	67 ·0
1. 57	14. 30	1. 34	·1046	6. 35	·00815	21. 40	60 ·0	63 ·0
2. 43	16. 0	1. 45	·1038	7. 17	·00788			
	***	2. 44	·1054	7. 34	·00810			
3. 51	14. 0	2. 53	·1066		***			
4. 8	12. 30		***	8. 23	·00762			
4. 38	17. 0	3. 30	·1022	10. 18	·00750			
5. 0	14. 50	3. 50	·1043	14. 8	·01630			
5. 4	15. 30	4. 0	·1038	17. 17	·01503			
5. 33	12. 0	4. 27	·1043	17. 26	·01483			
6. 0	13. 50	4. 40	·1052	19. 0	·01480			
6. 20	13. 10	4. 57	·1040	19. 6	·01435			
6. 32	14. 20	5. 9	·1042	21. 13	·01472			
7. 0	12. 0	5. 15	·1032	23. 59	·01328			
7. 17	13. 0	5. 45	·1040					
7. 34	6. 30	5. 57	·1036					
8. 7	11. 30	6. 10	·1042					
8. 30	9. 30	6. 30	·1052					
8. 45	10. 10		***					
9. 15	8. 10	7. 24	·1036					
10. 0	12. 0	7. 53	·1078					
11. 46	12. 0	7. 59	·1070					
12. 17	10. 0	8. 3	·1086					
12. 30	11. 30		***					
13. 1	9. 25	9. 4	·1048					
13. 8	10. 40	9. 15	·1038					
13. 55	11. 0		***					
14. 31	8. 50	11. 15	·1043					
15. 10	9. 50	11. 30	·1036					
17. 15	8. 15	12. 24	·1036					
17. 48	6. 0	12. 50	·1047					
19. 47	5. 20	13. 10	·1033					
21. 15	10. 0	13. 55	·1038					
21. 30	8. 50	21. 30	·1028					
21. 44	11. 0		***					
23. 59	15. 0	22. 50	·1030					
		23. 18	·1029					
		23. 59	·1027					
July 16		July 16		July 16		July 16		
0. 13	22. 15. 30	0. 8	·1028	0. 10	·01317	1. 40	62 ·5	65 ·5
1. 25	17. 50		***	1. 30	·01240	3. 40	63 ·5	65 ·5
2. 55	18. 25	1. 45	·1028	4. 0	·01002	9. 40	63 ·5	66 ·5
4. 36	16. 0	3. 0	·1037	5. 32	·00942	23. 15	63 ·5	66 ·0
5. 12	12. 30	3. 23	·1044	8. 5	·00768			
6. 2	12. 0	4. 23	·1046	10. 53	·00703			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 16		July 16		July 16				
h m	° ′ ″	h m		h m		h m		
7. 16	22. 11. 30	4. 53	·1036	14. 56	·00810			
9. 3	11. 10	5. 25	·1046	20. 30:	·01105			
10. 10	12. 10	6. 17	·1042	23. 59:	·00880			
10. 35	11. 30	6. 45	·1048					
10. 56	8. 0	7. 30	·1044					
11. 32	10. 50	7. 47	·1048					
12. 10	8. 50	8. 5	·1042					
12. 32	10. 10	8. 44	·1046					
12. 48	9. 0	9. 10	·1040					
13. 15	8. 30	9. 34	·1042					
13. 36	13. 30	9. 40	·1052					
14. 5	11. 0	9. 53	·1044					
15. 6	8. 10	10. 12	·1047					
16. 7	8. 0	10. 45	·1042					
17. 10	6. 0	11. 2	·1046					
18. 3	9. 0		***					
19. 2	4. 50	12. 30	·1046					
20. 43	8. 0	13. 45	·1034					
21. 55	8. 10	14. 40	·1046					
23. 59	15. 0	15. 32	·1040					
		17. 15	·1038					
		17. 50	·1035					
		18. 40	·1046					
		23. 0	·1016					
			***					
		23. 59	·1015					
July 17		July 17		July 17		July 17		
0. 15	22. 15. 15	0. 0	·1015	1. 8	·00670	9. 53	69 ·0	70 ·0
1. 0	16. 20	1. 14	·1022	1. 12	·00700	21. 40	62 ·0	64 ·0
1. 16	15. 30	2. 46	·1028	6. 12:	·00868			
4. 55	14. 30	3. 0	·1040	8. 10	·00860			
5. 26	14. 30	3. 23	·1044	9. 20	·00915			
8. 53	10. 0	3. 30	·1040	10. 50	·00890			
9. 22:	7. 50	3. 45	·1046	12. 8	·00910			
9. 54	10. 0		***	12. 38	·00882			
10. 18	9. 45	5. 0	·1032	16. 37	·01315			
10. 30	10. 30		***	17. 44	·01515			
11. 0	9. 25	6. 0	·1046	19. 45	·01418			
11. 27	10. 25	6. 30	·1028	22. 8	·01498			
11. 47	9. 30	6. 55	·1044	23. 59	·01462			
12. 17	16. 50	7. 4	·1038					
13. 4	8. 25	7. 20	·1040					
13. 52	6. 20	7. 50	·1033					
14. 28	7. 5	9. 14	·1032					
14. 37	6. 30	9. 55	·1038					
15. 6	8. 20	10. 19	·1034					
15. 44:	15. 50		***					
16. 36	5. 40	11. 11	·1040					
17. 17	6. 0	11. 26	·1044					
17. 51	8. 30	11. 55	·1036					
	***	12. 15	·1046					
18. 25	9. 20	12. 50	·1040					
	***	14. 16	·1044					
18. 46	14. 0	15. 0	·1036					
19. 6	11. 10	16. 15	·1048					
19. 34	10. 40	16. 50	·1032					
19. 48	8. 5	17. 33	·1042					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 17		July 17						
h m	° ′ ″	h m		h m		h m		
20. 4	22. 7. 0	17. 44	·1036					
20. 10	8. 35		***					
20. 22	6. 45	19. 27	·1042					
20. 31	8. 20		***					
21. 4	7. 0	20. 8	·1048					
23. 59	13. 10	21. 15	·1032					
		23. 11	·1013					
		23. 59	·1016					
July 18		July 18		July 18		July 18		
0. 25	22. 13. 40	0. 0	·1016	0. 20	·01450	1. 40	63 ·0	65 ·0
1. 28	16. 0	0. 37	·1014	3. 8:	·01317	3. 40	65 ·5	67 ·3
2. 18	16. 40	1. 0	·1021	7. 46	·00805	9. 40	65 ·5	67 ·7
5. 37	13. 25		***	9. 33:	·00840	21. 40	63 ·5	65 ·5
6. 52	11. 0	2. 50	·1021	11. 10:	·00818			
9. 26	10. 0		***	14. 19:	·00933			
10. 38	11. 30	4. 15	·1030	20. 48:	·01350			
11. 58	10. 30	4. 17	·1024	23. 30	·01310			
12. 16	11. 50	4. 20	·1030					
12. 55	9. 25	4. 45	·1030					
16. 30	9. 15		***					
17. 30	7. 20	7. 2	·1044					
18. 35	7. 45	10. 15	·1034					
19. 24	6. 10	11. 50	·1038					
20. 23	8. 0	12. 10	·1044					
21. 44	8. 0	13. 30	·1034					
23. 59	14. 15	18. 19	·1037					
		21. 40	·1020					
		22. 43	·1018					
		23. 30	·1022					
		23. 44	·1024					
		23. 59	·1029					
July 19		July 19		July 19		July 19		
0. 6	22. 14. 40	0. 0	·1029	0. 15	·01230	1. 40	64 ·8	67 ·0
0. 40	16. 0	0. 40	·1035	2. 2	·01070	3. 40	65 ·7	67 ·7
1. 8	15. 0	2. 5	·1024	3. 39	·00841	9. 40	69 ·0	72 ·0
2. 30	16. 10	5. 30	·1032		·00858	21. 40	64 ·0	65 ·0
4. 57	11. 5	5. 50	·1026	7. 31	·00941			
6. 22	10. 0		***	11. 16	·00941			
15. 23	10. 10	8. 14	·1036	14. 54:	·01085			
15. 53	11. 10	10. 50	·1030	18. 52	·01602			
16. 52	9. 10	16. 10	·1039	21. 40	·01505			
	***	20. 17	·1030	23. 5	·01585			
19. 50	7. 40	23. 0	·1014	23. 59	·01505			
20. 53	9. 25	23. 38	·1016					
21. 34	9. 10	23. 59	·1016					
23. 12	14. 50							
23. 59	16. 30							
July 20		July 20		July 20		July 20		
0. 31	22. 18. 0	0. 0	·1016	0. 18	·01530	1. 40	65 ·0	67 ·0
0. 58	17. 20	0. 35	·1018	2. 16	·01225	3. 40	67 ·8	70 ·3
2. 6	19. 15	0. 55	·1014	3. 43	·00948	9. 40	69 ·0	72 ·0
7. 42	7. 10	1. 30	·1022	5. 30	·01025	21. 40	63 ·0	65 ·0
8. 7	8. 0	2. 23	·1020	6. 46	·01010			
16. 21	9. 25	3. 50	·1028	6. 50	·01082			
17. 56	6. 25	4. 30	·1024	8. 15	·00980			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. for Temp. 32°.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. for Temp. 32°.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 20	° ′ ″	July 20		July 20			°	°
h m		h m		h m				
18. 47	22. 5. 50	6. 16	·1037	10. 28:	·02078			
20. 54	7. 0	7. 45	·1038	14. 13:	·01264			
23. 25	14. 0	8. 38	·1030	17. 51	·01658			
23. 58	14. 15	10. 5	·1028	23. 0	·01595			
		10. 20	·1032	23. 59	·01561			
		17. 30	·1040					
		21. 40	·1024					
		23. 38	·1026					
July 21		July 21		July 21		July 21		
0. 15	22. 15. 0	0. 8	·0974	0. 38	·01552	1. 40	65 ·0	68 ·0
1. 28	17. 10	0. 40	·0968	3. 16:	·01430	3. 40	68 ·3	71 ·2
2. 28	17. 0	1. 27	·0978	7. 8	·02030	9. 40	69 ·5	71 ·2
6. 7	9. 10			11. 36	·00928	21. 40	65 ·0	67 ·0
9. 8	10. 0	1. 53	·0974	14. 47:	·01072			
12. 50	10. 40			18. 28:	·01322			
16. 55	7. 10	3. 30	·0980	23. 59	·01561			
17. 25	5. 10	4. 16	·0976					
	***	6. 55	·0983					
19. 20	4. 0	9. 35	·0979					
	***	17. 20	·0996					
20. 8	6. 0	19. 20	·0998					
	***	20. 15	·0968					
20. 27	9. 25	21. 55	·0959					
	***	22. 40	·0958					
20. 48	8. 0	23. 23	·0966					
22. 43	14. 30	23. 59	·0972					
23. 2	17. 45							
23. 59	18. 45							
July 22		July 22		July 22		July 22		
0. 20	22. 19. 10	0. 12	·0976	0. 15	·01450	1. 40	67 ·0	69 ·2
0. 30	20. 0		***	2. 42	·01355	3. 40	68 ·0	70 ·0
1. 38	22. 25	1. 15	·0970		***	9. 40	69 ·0	72 ·0
2. 12	20. 40	1. 23	·0968	5. 53	·01334	21. 40	63 ·0	65 ·0
2. 28	21. 10	1. 40	·0976	8. 20	·01328			
2. 46	20. 20	2. 14	·0970	9. 19	·01095			
3. 3	22. 30		***	12. 21	·00950			
3. 10	21. 15	3. 19	·0968	14. 22	·00937			
3. 16	24. 0		***	17. 14	·01141			
3. 20	23. 10	3. 35	·0964	20. 54	·01611			
3. 26	24. 40	3. 55	·0988	21. 3	·01540			
3. 32	23. 45	4. 3	·0980		***			
3. 52	26. 35	4. 15	·0988	22. 45	·01593			
4. 2	25. 15	4. 34	·0978	23. 59	·01460			
4. 8	27. 0		***					
4. 15	26. 10	5. 53	·0994					
4. 21	26. 50	6. 8	·0978					
4. 32	24. 50	6. 45	·1008					
4. 38	25. 45	7. 10	·1002					
4. 55	23. 10	7. 23	·1006					
5. 18	23. 10	7. 34	·0997					
5. 26	25. 0		***					
5. 45	20. 0	7. 50	·1008					
5. 52	21. 30		***					
6. 19	17. 0	8. 26	·1001					
7. 20	13. 10	8. 34	·0991					
7. 27	13. 45	8. 43	·1004					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. for Temp. 32°.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. for Temp. 32°.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 22	° ′ ″	July 22					°	°
h m		h m						
7. 40	22. 8. 50	8. 46	·0998					
7. 51	11. 0		***					
8. 0	7. 0	9. 0	·1010					
8. 3	8. 0	9. 19	·0972					
8. 13	5. 50		***					
8. 30	22. 9. 0	10. 4	·0980					
8. 42	21. 59. 45	10. 43	·0977					
8. 53	22. 11. 0	11. 14	·0986					
8. 57	10. 0	11. 33	·0982					
9. 6	11. 50	11. 47	·1001					
9. 23	3. 10	12. 15	·0988					
9. 31	6. 30	13. 11	·0979					
10. 36	11. 45	13. 35	·0990					
10. 53	8. 0	14. 0	·0979					
11. 32	9. 35	16. 0	·0975					
11. 48	4. 55	16. 53	·0982					
11. 57	10. 15	17. 4	·0979					
12. 22:	0. 20	17. 16	·0984					
12. 52	4. 30		***					
13. 51	8. 5	18. 5	·0976					
14. 38	5. 0	18. 38	·0978					
15. 12	6. 45		***					
16. 24	5. 25	19. 8	·0973					
16. 48	2. 50	19. 18	·0965					
17. 0	4. 25	19. 36	·0970					
17. 31	0. 15	21. 35	·0943					
	***		***					
17. 54	2. 20	23. 15	·0946					
18. 32	2. 5		***					
18. 43	5. 45	23. 42	·0968					
18. 47	4. 0	23. 45	·0960					
18. 54	6. 15	23. 47	·0966					
19. 0	4. 0							
19. 12	6. 0							
19. 19	4. 0							
19. 50	8. 0							
20. 26	6. 45							
20. 32	3. 0							
20. 43	2. 50							
20. 55	11. 15							
21. 2	7. 40							
	***							
21. 27	12. 30							
21. 35	10. 0							
21. 50	12. 30							
21. 55	11. 0							
	***							
22. 8	11. 0							
	***							
22. 42	15. 45							
	***							
22. 51	12. 50							
	***							
23. 13	14. 50							
	***							
23. 30	12. 0							
	***							
23. 43	16. 0							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

July 21^{d} 0^{h} 8^{m}. Horizontal Force. The force at this time seems to have decreased by 0·005 suddenly, but it is suspected that the lid of the box was in contact with the suspension, or that there was some other cause of disturbance, which continued till after July 26^{d} at 0.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 22 h m	° ′ ″	h m		h m		h m	°	°
23. 58	22. 13. 30 ***							
July 23		July 23		July 23		July 23		
0. 4	22. 13. 30	2. 3	·0964	0. 20	·01390	1. 40	69 ·2	72 ·5
	***	2. 17	·0956	2. 6	·01021	3. 40	72 ·3	73 ·0
0. 29	18. 0	3. 45	·0959	2. 25	·01065	9. 40	73 ·0	73 ·0
0. 46	14. 10		***	3. 0	·01043	23. 10	63 ·0	65 ·0
1. 14	16. 10	4. 23	·0950	4. 14	·01100			
1. 23	19. 30	4. 35	·0965		·01238			
	***	4. 50	·0954	5. 0	·01137			
2. 30	22. 30				***			
2. 58	20. 0	5. 15	·0958	7. 7	·01065			
3. 20	15. 0	5. 23	·0968	10. 53	·01120			
3. 35	17. 0			13. 12:	·01352			
	***	5. 45	·0962	15. 15	·01620			
5. 29	11. 30			16. 49	·01622			
	***	6. 15	·0972	17. 43	·01580			
7. 7	9. 45	6. 27	·0968	23. 23	·01567			
7. 21	5. 35	6. 34	·0979					
	***	6. 44	·0968					
8. 9	6. 0	6. 46	·0978					
8. 20	4. 30	7. 10	·0959					
8. 53	7. 50		***					
9. 3	7. 0	7. 40	·0974					
9. 20	8. 50	8. 0	·0960					
10. 4	8. 15							
10. 22	11. 0	9. 20	·0961					
10. 43	10. 50		***					
11. 2	6. 30	10. 45	·0973					
11. 20	10. 10		***					
11. 30	10. 30	11. 2	·0962					
11. 45	12. 30	11. 20	·0974					
12. 30	5. 20	11. 30	·0970					
13. 3	3. 30	12. 8	·0963					
14. 3	6. 30	12. 40	·0972					
	***	13. 0	·0968					
15. 20	4. 0	13. 45	·0956					
15. 52	8. 30	14. 20	·0968					
16. 6	6. 45		***					
17. 3	7. 30	15. 3	·0969					
17. 33	14. 25	15. 30	·0963					
	***		***					
18. 45	6. 0	17. 8	·0970					
19. 5	7. 15	17. 30	·0979					
19. 21	5. 35	17. 45	·0966					
	***		***					
20. 2	8. 20	18. 35	·0975					
	***		***					
20. 25	6. 45	19. 20	·0964					
20. 27	8. 30	19. 40	·0966					
20. 42	5. 30	20. 0	·0956					
20. 51	8. 10	20. 30	·0953					
	***	21. 30	·0958					
21. 43	11. 15	21. 40	·0952					
22. 0	7. 25	21. 47	·0958					
22. 10	6. 50	22. 0	·0954					
22. 27	9. 0	22. 20	·0966					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 23 h m	° ′ ″	July 23 h m		h m		h m	°	°
23. 48	22. 10. 0	22. 43	·0959					
			***					
		23. 59	·0961					
July 24		July 24		July 24		July 24		
0. 28	22. 12. 0	0. 0	·0960	0. 0	·01580	10. 45	70 ·5	72 ·0
	***	0. 43	·0965	1. 17	·01600	21. 40	62 ·0	65 ·0
2. 2	16. 35	0. 50	·0960	4. 26:	·01350			
3. 25	16. 0		***	7. 40	·00970			
4. 36	11. 15	1. 20	·0973	9. 35:	·00985			
4. 52	11. 30	1. 45	·0964	13. 44	·00945			
5. 27	10. 20	2. 20	·0967	19. 8	·01605			
5. 58	11. 35	3. 10	·0974	23. 59	·01525			
7. 12	10. 0	3. 20	·0984					
8. 7	6. 30	3. 34	·0970					
8. 35	9. 0	3. 45	·0974					
9. 43	6. 20	4. 0	·0968					
10. 13	9. 0	4. 27	·0974					
11. 30	7. 10	4. 38	·0968					
11. 48	13. 0	5. 10	·0979					
12. 17	9. 10	6. 15	·0978					
12. 32	10. 0	6. 20	·0974					
12. 49	7. 50		***					
14. 18	5. 0	6. 54	·0990					
15. 48	6. 35	7. 16	·0980					
16. 38	9. 15		***					
17. 41	7. 0	8. 14	·0991					
18. 48	4. 50	8. 40	·0976					
19. 28	6. 25	9. 4	·0986					
19. 43	5. 5		***					
20. 23	6. 30	9. 38	·0980					
20. 50	4. 0	9. 45	·0984					
21. 11	6. 0		***					
21. 28	4. 20	10. 34	·0972					
23. 12	11. 30		***					
23. 35	11. 30	11. 45	·0963					
23. 59	13. 0	12. 6	·0966					
		12. 36	·0974					
			***					
		13. 30	·0977					
		14. 25	·0970					
		16. 0	·0970					
		16. 15	·0966					
		18. 0	·0975					
			***					
		19. 11	·0962					
		20. 12	·0958					
		20. 30	·0968					
		20. 53	·0963					
		21. 8	·0966					
		22. 10	·0961					
		23. 25	·0960					
July 25		July 25		July 25		July 25		
0. 17	22. 14. 0	1. 20	·0964	0. 10	·01515	1. 40	67 ·7	69 ·0
1. 35	14. 0		***	0. 54:	·01438	3. 40	70 ·0	71 ·7
1. 50	14. 40	3. 43	·0968	3. 27	·00950	9. 40	70 ·0	72 ·0
5. 27	9. 50		***	6. 45:	·01025	21. 40	64 ·0	66 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 25		July 25		July 25				
h m	° ′ ″	h m		h m		h m		
6. 30	22. 7. 20	4. 25	·0962	11. 6:	·01012			
9. 8	9. 30		***	14. 57	·01568			
10. 35	7. 30	5. 20	·0976	15. 15	·01572			
10. 47	8. 0	5. 28	·0974	16. 47	·01593			
11. 5	4. 45	5. 40	·0982	23. 59	·01563			
12. 0	7. 45	5. 58	·0973					
12. 50	6. 10	6. 55	·0982					
14. 2	9. 10	7. 16	·0979					
14. 47	13. 30	7. 30	·0983					
15. 25	9. 0	8. 0	·0980					
17. 27	6. 30	9. 5	·0984					
18. 38	6. 25	9. 20	·0979					
19. 58	4. 0	10. 45	·0978					
21. 5	6. 40	11. 8	·0994					
22. 2	7. 0	11. 44	·0980					
23. 15	11. 0	12. 5	·0982					
23. 59	13. 30	13. 30	·0974					
		14. 25	·0976					
		15. 8	·0986					
		15. 30	·0981					
		19. 5	·0984					
		23. 59	·0972					
July 26		July 26		July 26		July 26		
0. 16	22. 14. 15	0. 0	·0972	0. 15	·01558	1. 40	65	·0 ·67 ·0
1. 12	15. 30	1. 25	·1012	2. 43	·01470	3. 40	67	·0 ·69 ·0
4. 29	7. 45	2. 42	·1033	8. 42	·00902	9. 40	68	·3 ·69 ·7
5. 49	11. 0	2. 53	·1026	9. 55	·00920	21. 40	64	·0 ·65 ·7
7. 44	11. 10	3. 24	·1030	11. 53	·00854			
8. 0	10. 0		***	13. 39	·00866			
8. 12	10. 50	4. 30	·1020	15. 22	·00940			
8. 30	8. 0	4. 40	·1031	20. 32:	·01290			
8. 50	1. 45	5. 0	·1026	23. 59	·01342			
9. 16	4. 30		***					
9. 28	4. 0	5. 35	·1034					
10. 6	9. 25	5. 47	·1030					
10. 36	4. 20		***					
11. 12	5. 0	6. 28	·1032					
11. 47	2. 5	6. 32	·1038					
12. 46	12. 0	6. 50	·1032					
13. 18	12. 20		***					
13. 54	6. 35	7. 50	·1042					
14. 32:	16. 0	8. 17	·1040					
14. 47	10. 35	8. 38	·1030					
15. 4	8. 15	9. 9	·1045					
15. 12	8. 50	9. 40	·1024					
15. 28	5. 50	10. 38	·1026					
15. 43	7. 10	11. 3	·1014					
16. 0	5. 40	11. 30	·1021					
	***	12. 0	·1013					
17. 47	6. 15	12. 25	·1014					
	***		***					
18. 12	7. 45	13. 23	·1028					
	***	13. 38	·1025					
18. 47	8. 0	14. 1	·1035					
18. 54	5. 30		***					
	***	14. 24	·1035					
19. 13	6. 30	14. 41	·1026					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 26		July 26						
h m	° ′ ″	h m				h m		
19. 22	22. 9. 15	14. 51	·1032					
19. 25	7. 0	15. 4	·1024					
19. 35	8. 15		***					
19. 46	6. 45	16. 28	·1032					
	***		***					
20. 32	9. 45	19. 30	·1018					
20. 33	8. 25	19. 45	·1014					
21. 15	7. 20		***					
21. 26	9. 10	21. 40	·1008					
21. 40	7. 30	21. 50	·1014					
22. 59	11. 10	22. 33	·1002					
23. 35	10. 35	23. 30	·1002					
23. 57	12. 0	23. 58	·1004					
July 27		July 27		July 27		July 27		
0. 0	22. 11. 30	0. 46	·1001	0. 32	·01325	1. 40	66	·0 ·68 ·0
1. 28	15. 25	1. 8	·1002	3. 8:	·01200	3. 40	68	·3 ·70 ·3
2. 37	16. 0	1. 15	·0996		·00956	9. 47	71	·7 ·73 ·0
4. 56	14. 50	1. 40	·1006	4. 44	·00981	21. 40	67	·3 ·68 ·7
5. 32	12. 50	3. 0:	·1010	8. 36:	·01035			
6. 6	13. 10	3. 40	·1033	11. 17	·00958			
6. 43	10. 45	4. 0	·1012	14. 55	·01020			
7. 7	11. 0		***	16. 47	·01170			
7. 35	6. 50	5. 0	·1022	23. 20	·01586			
7. 45	7. 10		***	23. 59	·01604			
7. 56	5. 10	5. 36	·1020					
8. 43	9. 30	6. 10	·1036					
9. 31	10. 45	6. 30	·1030					
9. 44	12. 40	6. 53	·1035					
9. 53	11. 10	7. 4	·1030					
10. 20	11. 50	7. 15	·1032					
10. 44	9. 45	7. 24	·1023					
10. 55	11. 50		***					
11. 22	9. 50	7. 40	·1032					
12. 44	7. 0	7. 50	·1030					
13. 56	10. 10	8. 4	·1037					
14. 8	13. 35	9. 0	·1022					
	***	9. 20	·1024					
15. 22	10. 30	9. 34	·1021					
15. 45	8. 10	9. 40	·1024					
17. 23	5. 25	9. 50	·1018					
18. 2	6. 0		***					
18. 44	9. 0	10. 40	·1022					
	***	10. 54	·1033					
19. 13	6. 10	11. 14	·1020					
	***	11. 45	·1018					
19. 55	7. 25	12. 8	·1026					
20. 37	11. 5	12. 45	·1016					
20. 43	8. 25	13. 54	·1018					
21. 54	10. 0	14. 5	·1014					
22. 3	9. 10	14. 9	·1018					
23. 59	9. 40		***					
		15. 15	·1028					
		16. 15	·1024					
			***					
		19. 20	·1022					
		19. 34	·1018					
		20. 0	·1026					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	July 27 h m		h m		h m		
		21. 50	·1022					
		22. 30	·1028					
		23. 30	·1022					
		23. 59	·1026					
July 28		July 28		July 28		July 28		
0. 21	22. 14. 35	0. 0	·1026	0. 30	·01613	1. 40	68 ·0	69 ·5
1. 22	14. 30	1. 30	·0998	2. 12	·01597	3. 40	71 ·0	72 ·3
1. 57	16. 0		***	4. 40	·01287	9. 40	69 ·0	72 ·0
2. 15	15. 10	2. 26	·1005	7. 28	·01102	21. 40	67 ·0	70· 0
2. 18	16. 30	2. 35	·1000	10. 54:	·00980			
3. 13	15. 20	2. 50	·1010	17. 0:	·01230			
3. 20	16. 25	3. 7	·1002	22. 36:	·01625			
3. 43	15. 0	3. 32	·1016	23. 51	·01549			
4. 24	15. 25	4. 0:	·1006					
4. 40	13. 50	4. 30	·1024					
5. 34	13. 5	4. 46	·1014					
5. 47	11. 30	5. 10	·1027					
6. 6	11. 50		***					
6. 21	9. 15	6. 5	·1030					
6. 35	2. 10	6. 15	·1022					
7. 7	9. 0	6. 33	·1028					
7. 40	10. 15	6. 45	·1033					
8. 10	9. 30	7. 20	·1028					
8. 43	11. 10		***					
9. 28	10. 35	8. 17	·1012					
9. 44	13. 0		***					
10. 10	11. 0	9. 27	·1015					
10. 31	11. 50	9. 45	·1022					
11. 52	9. 0	10. 4	·1014					
12. 47	9. 40		***					
13. 13	14. 0	10. 38	·1022					
13. 24	12. 30	10. 52	·1016					
13. 32	13. 0	12. 15	·1010					
13. 48	11. 0	12. 40	·1014					
13. 55	11. 30	12. 46	·1010					
15. 1	4. 50	13. 28	·1012					
16. 22	9. 30	13. 41	·1006					
17. 46	6. 25	14. 28:	·1024					
19. 0	6. 0	15. 23	·1008					
19. 23	7. 30	16. 2	·1013					
19. 32	5. 40	16. 38	·1006					
19. 45	7. 45		***					
19. 50	6. 30	18. 23	·1014					
21. 17	7. 10	20. 9	·1001					
23. 30	13. 10		***					
23. 59	13. 0	22. 30	·0998					
		22. 34	·1002					
		23. 14	·0988					
		23. 59	·0994					
July 29		July 29		July 29		July 29		
0. 21	22. 14. 30	0. 0	·0994	0. 6	·01550	1. 40	69 ·0	72 ·0
2. 40	16. 10		***	1. 8	·01520	3. 40	69 ·0	72 ·0
2. 55	14. 30	2. 25	·1013	2. 37	·01368	9 ·40	70 ·0	72 ·5
4. 25	14. 0	2. 38	·1020	4. 53	·01010	21. 40	64 ·0	66 ·0
6. 16	13. 25	3. 5	·1002	9. 14	·00981			
7. 0	11. 40	4. 15	·1006		(†)			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 29 h m	° ′ ″	July 29 h m		July 29 h m		h m		
7. 30	22. 6. 25	4. 50	·1022	9. 40	·00951*			
8. 5	9. 30	5. 30	·1014		(†)			
8. 55	9. 35	5. 42	·1019	21. 40	·01393			
	(†)	6. 0	·1014		(†)			
9. 40	9. 7*		***					
	(†)	6. 25	·1025					
21. 40	9. 47*	6. 34	·1018					
	(†)		***					
		7. 4	·1022					
		7. 16	·1016					
		7. 45	·1030					
		7. 53	·1024					
		8. 9	·1022					
		8. 20	·1026					
		9. 0	·1020					
		9. 23	·1030					
		9. 34	·1024					
			(†)					
		9. 40	·1023*					
			(†)					
		21. 40	·1006*					
			(†)					
July 30		July 30		July 30		July 30		
1. 40	22. 14. 49*	1. 40	·1012*	1. 40	·01396*	1. 40	65 ·0	67 ·0
	(†)		(†)		(†)	3. 40	66 ·3	65 ·7
3. 40	12. 16*	3. 40	·1010	3. 40	·01094*	9. 55	68 ·0	69 ·7
	(†)		(†)		(†)	23. 13	63 ·0	65 ·5
6. 36	9. 25	6. 5	·1018	6. 0	·00980			
7. 51	9. 0		***	9. 8	·01062			
8. 8	7. 0	8. 14	·1022		·01277			
8. 18	7. 0	8. 30	·1007	10. 8	·01175			
8. 32	4. 0	8. 45	·1017	13. 42:	·01240			
8. 47	6. 50	9. 40	·1016	18. 14	·01690			
9. 21	9. 40	9. 55	·1022	22. 31	·01772			
10. 33	10. 45	10. 20	·1014	23. 59	·01615			
11. 27	8. 50	10. 45	·1020					
11. 43	10. 0		***					
11. 53	9. 20	12. 32	·1022					
13. 18	8. 10	12. 43	·1026					
13. 37	9. 30	13. 30	·1014					
14. 48	8. 20	14. 55	·1012					
15. 14	9. 10	18. 0	·1022					
15. 32	12. 0	23. 23	·0998					
16. 15	9. 0	23. 46	·1002					
20. 0	4. 50							
	***							
21. 35	7. 0							
21. 55	8. 30							
23. 5	10. 5							
23. 50	13. 0							
July 31		July 31		July 31		July 31		
1. 13	22. 14. 35	0. 5	·0997	0. 15:	·01602	11. 48	70 ·4	72 ·0
2. 6	16. 30	1. 0	·1007	2. 33:	·01353	21. 40	67 ·0	68 ·2
	***	2. 0	·1006	4. 18	·01045			
5. 42	13. 0	2. 58	·1016	7. 7	·01150			
6. 23	10. 40	3. 26	·1015	8. 32	·01155			
7. 5	2. 15	3. 45	·1020	8. 37	·01265			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

From July 29^{d}. 9^{h} to July 30^{d}. 6^{h} there were no Photographic Registers, owing to the gas being cut off.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 31		July 31		July 31				
h m	° ′ ″	h m		h m		h m		
	***	4. 14	·1012	10. 22	·01158			
8. 17	22. 5. 30		***	12. 55	·01095			
8. 48	9. 0	4. 49	·1022	16. 10	·01190			
			***	23. 0	·01556			
12. 32	9. 10	5. 4	·1016	23. 59	·01532			
12. 52	14. 20	5. 19	·1026					
13. 27	9. 30	5. 24	·1020					
13. 47	12. 40	6. 17	·1028					
14. 28	9. 25	6. 40	·1017					
15. 10	12. 0	7. 2	·1041					
15. 46	8. 50	7. 11	·1036					
18. 0	12. 0	7. 20	·1044					
18. 25	8. 15		***					
	***	8. 30	·1010					
22. 25	9. 0		***					
23. 59	12. 10	10. 35	·1008					
			***					
		12. 15	·1013					
		12. 30	·1022					
		13. 29	·1010					
		13. 50	·1018					
		14. 20	·1012					
		15. 34	·1015					
		16. 10	·1008					
		17. 45	·1004					
		19. 8	·1010					
		20. 45	·0998					
		22. 0	·1002					
			***					
		23. 59	·1001					
Aug. 1		Aug. 1		Aug. 1		Aug. 1		
0. 7	22. 12. 0	0. 5	·1002	0. 30	·01525			
1. 16	15. 10	0. 45	·0998	2. 5	·01435			
2. 33	13. 30		***	3. 26	·01150			
2. 49	11. 40	3. 33	·1012		·01172			
3. 5	12. 10		***	3. 44	·01170			
4. 35	8. 10	4. 40	·1001		·01285			
6. 35	7. 15	5. 10	·1006	4. 24	·01212			
9. 21	9. 0		***	4. 37	·01224			
11. 47	6. 35	6. 36	·1001	5. 0	·01218			
14. 16	11. 20		***	5. 15	·01240			
15. 17	7. 20	7. 0	·1006	5. 54	·01212			
18. 25	6. 0	7. 26	·0997	6. 20	·01267			
21. 37	7. 0	7. 45	·1002	6. 47	·01258			
23. 50	11. 40	8. 38	·1000	10. 20	·01285			
			***	11. 53	·01490			
		11. 0	·1012	14. 55	·01788			
		11. 18	·1009	19. 0	·01814			
		12. 13	·1014	23. 53	·01722			
		12. 33	·1010					
		13. 20	·1008					
		14. 33	·1018					
		15. 20	·1015					
		16. 31	·1018					
			***					
		17. 35	·1022					
		20. 16	·1012					
		22. 0	·0998					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Aug. 1						
h m	° ′ ″	h m		h m		h m		
		23. 24	·0998					
		23. 46	·1002					
		Aug. 2		Aug. 2		Aug. 2		
0. 34	22. 14. 30	0. 0	·1004	0. 15	·01737	1. 40	71	72
2. 7	16. 55	1. 24	·1011	2. 5	·01593	3. 40	71	74
3. 52	12. 40	2. 15	·1002	5. 10	·01148	9. 40	73	73
8. 38	9. 0	3. 33	·1020	6. 56	·01150	21. 40	64	69
8. 51	9. 45	6. 30	·1016	7. 8	·01258			
9. 25	7. 25	7. 40	·1020	8. 1	·01247			
10. 42	9. 20	8. 27	·1018	12. 0	·01430			
13. 12	8. 10	10. 38	·1025	13. 46	·01570			
15. 24	11. 50	13. 5	·1024	16. 7	·01857			
17. 28	6. 30	15. 3	·1020	20. 37	·01768			
19. 46	6. 0	17. 16	·1031	23. 53	·01725			
21. 7	9. 30	20. 26	·1016					
23. 50	12. 35	23. 33	·1008					
		23. 34	·1014					
		23. 45	·1012					
Aug. 3		Aug. 3		Aug. 3		Aug. 3		
0. 0	22. 13. 20	1. 0	·1009	0. 15	·01696	1. 40	69	71
1. 25	15. 45	1. 50	·1018	2. 17	·01472	3. 40	72	73
4. 57	12. 0		***	4. 37	·01148	9. 40	74	75
5. 56	8. 35	2. 46	·1015	6. 5	·01202	21. 40	64	69
13. 18	10. 15	2. 58	·1006	8. 46	·01179			
19. 48	6. 10	3. 9	·1012	9. 54	·01230			
20. 43	8. 35	4. 0	·1012	10. 9	·01350			
22. 7	8. 0	4. 13	·1006	12. 20	·01562			
23. 59	12. 10	4. 41	·1005	14. 31	·01862			
		5. 0	·1014	14. 50	·01841			
			***	19. 55	·01810			
		6. 0	·1014	23. 59	·01674			
		6. 30	·1006					
		6. 45	·1006					
		7. 35	·1017					
		7. 45	·1012					
		8. 29	·1012					
		8. 40	·1015					
		8. 53	·1008					
		10. 56	·1010					
		12. 20	·1018					
		18. 35	·1023					
		21. 34	·1010					
		23. 34	·1006					
		23. 59	·1005					
Aug. 4		Aug. 4		Aug. 4		Aug. 4		
0. 38	22. 12. 50	0. 25	·1004	0. 15	·01610	1. 40	68	70
6. 12	7. 15	4. 0	·1014	1. 45	·01478	3. 40	72	73
12. 51	8. 50	6. 16	·1008	3. 50	·01340	9. 40	74	77
13. 34	7. 30	13. 0	·1016	5. 28	·01162	21. 40	67	69
16. 28	8. 30	19. 15	·1018	7. 27	·01188			
18. 43	7. 10	22. 0	·1008	9. 2	·01278			
20. 34	5. 40	23. 59	·1006	13. 6	·01538			
23. 59	14. 45			15. 19	·01843			
				18. 15	·01805			
				23. 59	·01648			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 5		Aug. 5		Aug. 5		Aug. 5		
h m	° ′ ″	h m		h m		h m	°	°
0. 20	22. 16. 0	0. 0	·1006	0. 15	·01640	9. 40	66 ·8	69 ·5
1. 16	18. 0	3. 15	·1022	2. 32	·01456	21. 40	67 ·0	69 ·0
3. 38	15. 0	9. 15	·1016	5. 38	·01067	1. 40	69 ·0	71 ·5
6. 0	8. 40	11. 45	·1025	7. 0	·01060	3. 40	62 ·c	64 ·c
11. 20	10. 0	14. 0	·1025	9. 53:	·01055			
17. 6	7. 0	17. 0	·1034	14. 13:	·01400			
17. 34	5. 15	22. 53	·1014	16. 27	·01730			
21. 15	8. 10	23. 30	·1012	16. 35	·01711			
23. 59	14. 10	23. 58	·1016	18. 54	{·01695 ·01578			
				20. 13	·01668			
				21. 40	·01641			
				23. 59	·01530			
Aug. 6		Aug. 6		Aug. 6		Aug. 6		
0. 13	22. 14. 30	0. 15	·1018	0. 15	·01440	1. 40	65 ·0	67 ·7
10. 32	9. 50	3. 40	·1022	3. 3	·00957	3. 40	71 ·3	72 ·0
11. 14	7. 15	5. 15	·1034	5. 20	·01029	9. 40	71 ·0	73 ·0
11. 45	8. 20	5. 25	·1032	9. 2	·01078	23. 7	63 ·0	65 ·0
12. 0	11. 35	6. 8	·1032	12. 15	·01050			
12. 50	3. 50	6. 30	·1038	15. 20:	·01192			
15. 17	9. 15	7. 5	·1040	19. 11	·01727			
17. 3	6. 15	7. 14	·1034		***			
17. 58	9. 25	7. 25	·1040	21. 30	·01638			
18. 58	19. 50	8. 0	·1034	23. 20	·01664			
20. 2	11. 45	8. 13	·1038					
20. 13	14. 10	8. 50	·1023					
20. 25	11. 30	9. 30	·1022					
21. 2	12. 0	10. 0	·1028					
21. 11	8. 40	10. 15	·1024					
21. 25	12. 35	11. 38	·1024					
21. 32	11. 0	11. 53	·1030					
	***	12. 30	·1024					
23. 19	13. 15	12. 54	·1022					
		13. 30	·1016					
		14. 29	·1023					
		14. 45	·1020					
		15. 53	·1026					
		16. 14	·1024					
		17. 10	·1024					
		17. 40	·1032					
		18. 33	·1016					
		19. 0	·1020					
		19. 40	·1036					
		20. 10	·1036					
		20. 21	·1030					
		20. 30	·1032					
		20. 53	·1026					
		21. 2	·1026					
		21. 7	·1020					
		21. 15	·1026					
		21. 30	·1016					
		21. 33	·1022					
		21. 46	·1018					
		21. 55	·1022					
		22. 5	·1014					
		22. 11	·1020					
		22. 16	·1012					
		22. 41	·1006					
		22. 46	·1010					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 7		Aug. 7		Aug. 7		Aug. 7		
h m	° ′ ″	h m		h m		h m	°	°
0. 3	22. 13. 45	0. 7	·1000	0. 15	·01687	10. 13	69 ·5	72 ·7
2. 7	12. 50	0. 30	·0998	2. 37:	·01587	21. 40	64 ·8	67 ·7
2. 52	15. 30	0. 55	·1003	5. 50	·01090			
4. 0	16. 10		***	8. 8	{·01100 ·01245			
8. 6	8. 0	2. 8	·0986					
11. 14	22. 8. 50	3. 15	·1019	10. 5:	·01192			
12. 5	21. 59. 10	3. 46	·1012	11. 57	·01287			
12. 22	22. 3. 30	4. 0	·1015	12. 47	·01261			
12. 44	16. 0	4. 28	·1004	16. 47	·01754			
13. 44	2. 30	5. 45	·1017	18. 45	·01720			
14. 8	6. 30	6. 32	·1016	23. 59	·01706			
15. 13	6. 0	6. 46	·1024					
16. 34	12. 40	7. 15	·1021					
17. 10	9. 0	7. 33	·1029					
18. 3	8. 10	8. 14	·1020					
18. 47	5. 10	9. 25	·1018					
20. 26	5. 50	9. 40	·1013					
23. 59	14. 0	10. 28	·1019					
		10. 53	·1015					
		11. 30	·1018					
		12. 0	·1008					
		12. 28	·1010					
		12. 38	·1004					
		13. 6	·1024					
		13. 30	·1006					
		14. 0	·1023					
		14. 38	·1016					
		15. 30	·1015					
		16. 55	·1024					
		17. 30	·1022					
		18. 4	·1026					
		19. 15	·1016					
		19. 27	·1018					
		21. 50	·1008					
		23. 20	·1005					
		23. 59	·1008					
Aug. 8		Aug. 8		Aug. 8		Aug. 8		
0. 15	22. 14. 30	0. 0	·1008	0. 46	·01648	1. 40	66 ·0	69 ·0
2. 2	18. 0	0. 45	·1015	2. 5:	·01440	3. 40	70 ·0	73 ·0
6. 35	6. 35	1. 20	·1010	3. 38	·01082	9. 40	69 ·3	73 ·3
9. 28	9. 50		***	6. 6	·01135	21. 40	63 ·0	66 ·0
14. 1	8. 0	3. 15	·1010	8. 13	·01095			
14. 17	10. 35	3. 55	·1016	8. 48	·01172			
14. 47	10. 0	4. 20	·1012	10. 3:	·01255			
15. 23	14. 0		***	13. 34	·01790			
16. 20	7. 35	4. 46	·1018	16. 6	·01706			
16. 51	8. 15	5. 0	·1016	17. 48	·01722			
17. 10	6. 30	5. 8	·1020	19. 31	·01670			
18. 5	9. 0	5. 35	·1010	22. 3:	·01630			
18. 55	16. 30	5. 53	·1026	23. 59	·01455			
19. 52	7. 0	6. 15	·1012					
21. 1	8. 0	6. 40	·1005					
23. 59	14. 25	7. 44	·1016					
		8. 53	·1018					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denote that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 8 h m		h m		h m		
		9. 4	·1016					
		9. 15	·1022					
		9. 35	·1014					
			***					
		12. 0	·1024					
		12. 44	·1022					
		13. 15	·1026					
			***					
		15. 5	·1020					
		16. 0	·1030					
		16. 55	·1028					
		17. 58	·1036					
		18. 20	·1032					
		18. 35	·1024					
		18. 50	·1022					
		19. 24	·1036					
			***					
		21. 20	·1018					
		22. 29	·1014					
		23. 14	·1004					
		23. 38	·1004					
		23. 52	·1008					
Aug. 9		Aug. 9		Aug. 9		Aug. 9		
0. 5	22. 14. 30	0. 9	·1006	0. 30:	·01380	1. 40	66 ·0	69 ·0
0. 54	18. 30	0. 30	·1004	2. 20	·00985	3. 40	71 ·3	73 ·0
2. 25	18. 10	0. 45	·1010	4. 36	·01105	9. 40	70 ·0	73 ·0
6. 44	8. 0	1. 8	·1002	9. 20:	·01205	21. 40	62 ·0	65 ·0
9. 37	7. 15		***	13. 34	·01760			
10. 7	9. 0	1. 32	·1003	14. 17	·01697			
13. 24	9. 50	1. 55	·0998	21. 36	·01664			
13. 43	11. 30	2. 10	·1010	23. 59	·01443			
14. 25	7. 0	2. 40	·0990					
15. 32	11. 0	3. 37	·1012					
16. 7	7. 30	4. 5	·1002					
17. 7	9. 10		***					
18. 15	7. 0	6. 40	·1018					
19. 44	11. 50		***					
22. 4	9. 30	8. 4	·1010					
23. 59	13. 30	8. 55	·1019					
		9. 55	·1017					
			***					
		13. 0	·1023					
		13. 25	·1028					
		13. 38	·1033					
		14. 0	·1030					
		14. 17	·1032					
		14. 50	·1021					
		15. 30	·1024					
		15. 50	·1030					
		16. 20	·1024					
		17. 30	·1026					
		18. 16	·1019					
			***					
		19. 5	·1024					
			***					
		20. 40	·1016					
		22. 5	·1014					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 9 h m		h m		h m		
		22. 20	·1020					
			***					
		23. 59	·1006					
Aug. 10		Aug. 10		Aug. 10		Aug. 10		
0. 2	22. 13. 50	0. 17	·0998	0. 20	·[illegible]	1. 40	[illegible]	
2. 23	14. 15	0. 45	·0998	2. 32	·00970	3. 40	[illegible]	
6. 2	8. 25	1. 0	·1000	5. 18	·01072	9. 40	[illegible]	
8. 24	7. 0	1. 53	·1004	7. 39	·01028	21. 40	60 ·0	[illegible]
9. 2	8. 40	2. 15	·1001	10. 17	·[illegible]			
14. 43	8. 15	7. 4	·1020	12. 35	·01375			
16. 33	9. 0	7. 43	·1017	14. 58	·01738			
19. 15	6. 10	18. 20	·1028	15. 30	·01704			
22. 30	7. 20	20. 40	·1022	20. 50	·01680			
23. 59	11. 10	22. 55	·1002	21. 6	·01630			
		23. 23	·1001	22. 46	·01588			
		23. 36	·1001	23. 25	·01467			
		23. 59	·1005					
Aug. 11		Aug. 11		Aug. 11		Aug. 11		
0. 8	22. 11. 20	0. 0	·1005	0. 0	·01397	1. 40	66 ·0	[illegible]
1. 58	15. 30	1. 53	·1012	1. 55	·00938	3. 40	[illegible]	
5. 25	8. 50	2. 24	·1004	4. 41	·01096	9. 40	[illegible]	
7. 7	7. 10	3. 32	·1008	7. 17	·01090	21. 40	[illegible]	
9. 56	10. 0	3. 38	·1014	10. 2	·[illegible]			
12. 17	7. 30	4. 5	·1010	12. 47:	·[illegible]			
15. 48	8. 0		***	14. 51	·01747			
16. 21	10. 30	5. 40	·1010	17. 13	·01684			
18. 17	4. 45	6. 20	·1019	21. 55	·01650			
20. 1	4. 0	8. 56	·1022	23. 59	·01610			
22. 47	6. 50	9. 30	·1032					
23. 59	10. 20	11. 20	·1030					
		19. 0	·1036					
		23. 5	·1020					
		23. 20	·1014					
		23. 59	·1012					
Aug. 12		Aug. 12		Aug. 12		Aug. 12		
0. 14	22. 11. 30	0. 13	·1012	1. 0	·01534	1. 40	[illegible]	
1. 58	13. 30	0. 25	·1008	2. 3	·01402	3. 40	[illegible]	
3. 28	12. 10	0. 45	·1012	4. 1	·[illegible]	9. 40	[illegible]	
5. 0	7. 50	1. 20	·1012	5. 2	·[illegible]	21. 20	[illegible]	
6. 14	7. 0	1. 53	·1023	10. 5	·00960			
9. 17	9. 45	3. 42	·1023	13. 35	·01215			
15. 49	8. 20	3. 55	·1027	18. 38	·[illegible]			
16. 35	9. 50	4. 45	·1020	19. 53	·[illegible]			
18. 50	6. 30		***	23. 39	·01642			
23. 59	10. 40	7. 30	·1036					
		10. 20	·1030					
		12. 20	·1032					
		17. 5	·1037					
		23. 40	·1016					
		23. 59	·1018					
Aug. 13		Aug. 13		Aug. 13		Aug. 13		
0. 5	22. 11. 0	0. 0	·1018	0. 0	·01640	1. 40	65 ·5	[illegible]
2. 31	13. 35	2. 23	·1028	2. 8:	·[illegible]	3. 40	[illegible]	
6. 6	10. 5	5. 53	·1030	4. 38	·[illegible]	9. 40	66 ·8	69 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 13		Aug. 13		Aug. 13		Aug. 13		
h m	° ′ ″	h m		h m		h m		
11. 58	22. 9. 0	6. 52	·1027	5. 23	·01022	23. 23	64 ·0	66 ·0
12. 10	11. 10	7. 25	·1038	9. 59:	·01040			
13. 3:	3. 30		***	14. 52	·01720			
14. 18	6. 40	7. 50	·1034	15. 14	·01687			
15. 18	6. 25	9. 50	·1036	20. 5	{·01650			
16. 25	6. 40	11. 0	·1042		{·01565			
19. 37	4. 40	11. 45	·1040	21. 30	·01530			
20. 7	8. 0	12 16	·1047	23. 30	·01467			
20. 33	7. 40	13. 10	·1036					
21. 1	10. 0	13. 50	·1034					
21. 48	7. 30		***					
22. 2	10. 0	16. 0	·1044					
22. 40	10. 0		***					
23. 59	13. 30	18. 8	·1042					
		19. 30	·1040					
		19. 50	·1032					
		20. 45	·1033					
		21. 0	·1040					
		21. 45	·1040					
		22. 30	·1032					
		22. 50	·1038					
		23. 2	·1031					
		23. 10	·1033					
		23. 30	·1032					
Aug. 14		Aug. 14		Aug. 14		Aug. 14		
0. 5	22. 13. 30	0. 0	·1023	0. 30	·01417	10. 35	68 ·7	69 ·8
1. 12	15. 0	0. 45	·1022	3. 29:	·01218	21. 40	60 ·0	63 ·0
7. 23	7. 45	2. 15	·1032	5. 23	·00935			
10. 16	9. 30	3. 45	·1028	6. 5	·00970			
13. 47	8. 30	3. 55	·1031	7. 56	·00972			
14. 35	10. 0	4. 8	·1024	8. 36	·00997			
15. 39	8. 10	4. 30	·1026	14. 49	·01177			
16. 23	8. 35	4. 56	·1022	19. 15	·01757			
19. 52	6. 25	5. 10	·1032	22. 6	·01627			
21. 52	8. 50	5. 25	·1026	23. 59	·01615			
23. 25	13. 20	5. 45	·1030					
		5. 56	·1026					
		6. 50	·1035					
		7. 30	·1032					
		7. 39	·1035					
		8. 0	·1034					
		8. 15	·1028					
		10. 15	·1023					
		11. 40	·1026					
		12. 23	·1026					
		12. 58	·1023					
		14. 0	·1024					
		15. 11	·1028					
		22. 5	·1020					
		23. 38	·1022					
		23. 59	·1023					
Aug. 15		Aug. 15		Aug. 15		Aug. 15		
1. 15	22. 14. 10	0. 50	·1018	0. 20	·01613	1. 40	62 ·0	64 ·0
2. 28	13. 30	6. 0	·1030	2. 24	·01572	3. 40	65 ·0	66 ·0
3. 33	10. 35	8. 0	·1038	6. 32	·01140	9. 40	63 ·0	65 ·0
6. 43	8. 30	16. 0	·1042	7. 31	·01096	21. 40	58 ·0	60 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 15		Aug. 15		Aug. 15				
h m	° ′ ″	h m		h m		h m	°	°
10. 11	22. 9. 0	16. 45	·1038	10. 47	·01152			
15. 38	8. 0	19. 15	·1040	13. 6	·01310			
16. 12	6. 30	22. 23	·1029	16. 56	{·01650			
19. 58	4. 50	23. 59	·1030		{·01627			
22. 13	8. 15				{·01620			
23. 59	13. 5			18. 3	{·01460			
				21. 0:	·01490			
				23. 59	·01377			
Aug. 16		Aug. 16		Aug. 16		Aug. 16		
0. 4	22. 13. 10	0. 0	·1030	0. 20	·01345	1. 40	62 ·0	64 ·0
2. 17	14. 35	0. 44	·1030	5. 8	·00886	3. 40	63 ·0	64 ·8
5. 25	10. 10	3. 5	·1050	6. 20:	·00835	9. 40	62 ·5	63 ·5
	(†)	6. 8	·1054	11. 23	·00861	21. 40	59 ·0	60 ·7
23. 43	10. 40	6. 20	·1058	14. 3	·00978			
23. 59	12. 30	6. 30	·1055	14. 11	·00925			
			***	20. 7:	·01210			
		10. 0	·1058	23. 59	·01152			
		10. 25	·1060					
		10. 40	·1052					
		10. 46	·1056					
		11. 28	·1049					
		11. 56	·1050					
		12. 17	·1053					
		12. 32	·1046					
			***					
		12. 50	·1042					
		13. 50	·1046					
		14. 13	·1040					
		15. 4	·1046					
			***					
		15. 44	·1038					
		15. 52	·1043					
		17. 4	·1044					
		17. 23	·1048					
		17. 50	·1047					
		18. 8	·1058					
		18. 27	·1052					
		18. 40	·1057					
			***					
		20. 40	·1040					
		21. 15	·1042					
			***					
		23. 30	·1032					
		23. 45	·1028					
		23. 57	·1030					
Aug. 17		Aug. 17		Aug. 17		Aug. 17		
0. 22	22. 14. 0	0. 0	·1027	0. 20	·01132	1. 40	63 ·0	65 ·0
1. 7	18. 40		***	1. 0	·01060	3. 40	68 ·0	69 ·0
2. 5	15. 30	0. 50	·1018	2. 2	·00860	9. 56	65 ·0	67 ·0
3. 10	15. 30	1. 10	·1030	4. 25:	·00993	21. 40	56 ·0	58 ·0
4. 10	12. 10	1. 27	·1016	7. 47	·00928			
6. 33	8. 30	1. 44	·1004	10. 15:	·01030			
9. 8	10. 0	1. 56	·1007	13. 54	·01648			
9. 22	8. 30	2. 11	·1004	14. 30	·01610			
10. 9	9. 45	2. 50	·1006	18. 30	·01555			
10. 32	8. 20	3. 15	·1012	20. 44	·01565			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. are rejected for the 1st Decimal.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. are rejected for the 1st Decimal.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
Aug. 17		Aug. 17		Aug. 17				
h m	° ′ ″	h m		h m		h m	°	°
14. 8	22. 10. 35	4. 0	·1015	20. 55	·01484			
17. 25	7. 50		***	22. 35	·01472			
	***	4. 52	·1020	23. 40	·01[illegible]			
22. 13	8. 20	5. 15	·1014		***			
23. 59	12. 30		***					
		6. 20	·1026					
		6. 33	·1024					
		7. 35	·1036					
		7. 52	·1030					
		8. 0	·1034					
		8. 53	·1038					
		9. 0	·1032					
		9. 4	·1036					
		9. 14	·1028					
		9. 25	·1032					
		9. 57	·1030					
		10. 14	·1033					
		10. 20	·1028					
		10. 44	·1037					
		11. 0	·1030					
			***					
		12. 16	·1034					
		12. 44	·1027					
		13. 8	·1032					
		13. 46	·1036					
		15. 30	·1034					
		17. 5	·1040					
		19. 14	·1034					
		20. 50	·1022					
		21. 30	·1023					
		22. 35	·1012					
		23. 35	·1020					
		23. 45	·1054					
Aug. 18		Aug. 18		Aug. 18		Aug. 18		
0. 5	22. 12. 40	0. 10	·1036	0. 22	·01290	1. 40	60 ·0	62 ·0
1. 36	14. 15	0. 40	·1045	2. 58	·00896	3. 40	65 ·0	67 ·0
4. 45	9. 10	2. 53	·1047		·01075	9. 40	65 ·0	67 ·0
8. 44	10. 50	3. 35	·1052	3. 18	·01020	21. 40	63 ·0	65 ·0
9. 13	9. 35	5. 16	·1048		·01103			
10. 45	11. 5	5. 50	·1054	4. 35	·00840			
13. 48	10. 15		***	7. 44	·00788			
14. 7	12. 30	7. 5	·1052	8. 46	·00803			
14. 49	12. 0		***	11. 0	·00762			
15. 28	8. 50	11. 2	·1094	15. 32	·01090			
19. 38	8. 15	11. 45	·1092	18. 0	·01442			
20. 32	9. 30	13. 30	·1090	19. 0	·01548			
23. 59	9. 30	16. 40	·1087	21. 47	·01520			
			***	23. 59	·01352			
		17. 52	·1096					
		18. 40	·1088					
		19. 0	·1094					
		19. 9	·1092					
		20. 10	·1094					
		20. 15	·1088					
		20. 25	·1094					
		20. 50	·1096					
		22. 15	·1091					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. are rejected for the 1st Decimal.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. are rejected for the 1st Decimal.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
		Aug. 18						
h m	° ′ ″	h m		h m		h m	°	°
		22. 45	·1044					
		22. 53	·1094					
Aug. 19		Aug. 19		Aug. 19		Aug. 19		
0. 18	22. 17. 0	0. 20	·1026			1. 40	65 ·0	67 ·0
1. 12	15. 20	1. 0	·1033	3. 30	·[illegible]76	3. 40	69 ·0	71 ·0
6. 19	12. 10	1. 30	·1032	8. 35	·00988	8. 40	70 ·0	72 ·0
6. 37	13. 5	1. 50	·1028	9. 4	·00970	21. 40	67 ·0	69 ·2
7. 5	10. 0	2. 0	·1032	10. 38	·00990			
8. 0	10. 0	2. 25	·1024	11. 0	·00965			
8. 22	7. 0	2. 34	·1027	11. 24	·[illegible]			
8. 47	8. 30	2. 50	·1023	12. 1	·[illegible]			
9. 23	7. 30		***	13. 3	·01070			
9. 34	9. 15	3. 30	·1033	13. 47	·01070			
10. 10	11. 30		***	18. 34	·01477			
10. 30	11. 30	3. 49	·1046	23. 59	·01[illegible]			
10. 45	22. 15. 5	4. 14	·1018					
11. 13	21. 56. 20	4. 24	·1022					
11. 31	55. 0	5. 2	·1014					
12. 2	21. 56. 50		***					
13. 8	22. 10. 0	6. 3	·1046					
13. 34	10. 35	6. 14	·1023					
13. 44	9. 0	6. 32	·1038					
14. 15	11. 25	7. 5	·1016					
14. 58	6. 30	7. 30	·1032					
15. 14	7. 40	7. 46	·1018					
15. 51	6. 0		***					
16. 0	4. 10	8. 14	·1020					
16. 17	9. 25	8. 31	·1033					
16. 28	7. 10	9. 0	·1025					
16. 55	12. 0		***					
17. 16	9. 0	9. 33	·1042					
18. 40	7. 15	9. 45	·1036					
18. 50	10. 30	9. 56	·1039					
19. 24	7. 25	10. 8	·1032					
19. 38	9. 45	10. 20	·1041					
19. 50	8. 0	10. 30	·1035					
20. 35	9. 0	10. 40	·1062					
23. 7	15. 40	11. 0	·1034					
		11. 20	·1060					
		11. 24	·1056					
		11. 35	·1064					
			***					
		12. 0	·1028					
		12. 14	·1026					
			***					
		12. 32	·1020					
		12. 46	·1022					
		13. 0	·1039					
		13. 9	·1032					
		13. 40	·1027					
		13. 46	·1031					
		13. 53	·1026					
		14. 4	·1034					
		14. 15	·1031					
		14. 58	·1042					
			***					
		16. 0	·1040					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug.19 h m		h m		h m	°	°
		16. 4	·1047					
		16. 11	·1040					
		16. 46	·1048					
		17. 2	·1038 ***					
		17. 46	·1048					
		17. 52	·1042					
		18. 11	·1042 ***					
		18. 50	·1060					
		19. 2	·1044					
		21. 34	·1034					
		23. 50	·1032					
		23. 59	·1034					
Aug.20		Aug.20		Aug.20		Aug.20		
1. 28	22. 18. 0	0. 10	·1146	0. 15	·01483	1. 40	69 ·0	70 ·7
1. 44	15. 50	1. 40	·1150	3. 13	·01378	3. 40	71 ·0	73 ·0
2. 2	16. 50	2. 25	·1142	5. 2	·01025	9. 40	69 ·4	71 ·0
3. 6	12. 50	2. 50	·1147		·01044	23. 0	65 ·0	66 ·0
4. 32	13. 0	3. 38	·1142	8. 23	·00981			
6. 0	5. 30 ***	4. 22	·1158	10. 8:	·01070			
		5. 0	·1150	13. 13	·01668			
10. 16	5. 45	6. 0	·1156	14. 0	·01628			
11. 30	10. 0	6. 20	·1148	20. 50	·01607			
12. 0	8. 40	7. 5	·1150	23. 14:	·01638			
12. 13	9. 0	8. 30	·1129	23. 59:	·01572			
12. 32	7. 50	8. 45	·1130					
13. 6:	9. 50	9. 21	·1143 ***					
13. 54	2. 20							
14. 24	1. 35	10. 27	·1130 ***					
14. 38	3. 0							
15. 53:	9. 35	12. 0	·1144					
16. 46	5. 0		(†)					
17. 54	4. 30 (†)	23. 0	·1150* (†)					
23. 0	13. 39 (†)							
Aug.21		Aug.21		Aug.21		Aug.21		
9. 40	22. 15. 54*	9. 40	·1135*	0. 15	·01545	9. 40	68 ·0	69 ·0
21. 40	6. 41*	21. 40	·1108*	0. 51	·01445	21. 40	63 ·0	65 ·0
				2. 55	·00938			
				5. 25	·01010			
				7. 37	·00958			
				9. 15	·00970			
				10. 13	·00997			
				13. 57:	·01047			
				15. 50	·01262			
				19. 3	·01633			
				22. 23	·01647			
				23. 59:	·01567			
Aug.22		Aug.22		Aug.22		Aug.22		
1. 21	22. 17. 30	2. 15	·1126	0. 15	·01470	1. 40	66 ·0	68 ·5
2. 9	15. 10	3. 30	·1116	3. 0	·00972	3. 40	67 ·0	69 ·7
2. 16	17. 0	4. 20	·1122	3. 43	·01022	9. 40	68 ·5	70 ·0
2. 36	14. 0	4. 30	·1114	10. 52	·00970	21. 40	63 ·0	65 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.22 h m	° ′ ″	Aug.22 h m		Aug.22 h m		h m	°	°
2. 53	22. 17. 0	4. 43	·1127	12. 2	·01025			
3. 13	12. 45	5. 8	·1107	12. 20	·01008			
3. 16	13. 0	5. 29	·1124	15. 49	·01355			
3. 43	7. 50	5. 38	·1119	18. 32	·01685			
4. 39	13. 0	5. 55	·1120	23. 59	·01588			
5. 8	8. 50	6. 3	·1126					
6. 47	9. 10	6. 38	·1118 ***					
7. 32	4. 0							
8. 10	22. 7. 20	7. 23	·1120					
8. 26	21. 57. 0 ***	7. 38	·1128					
		8. 0	·1124					
9. 24	22. 6. 10 ***	8. 15	·1130					
		8. 23	·1126					
10. 21	5. 15	8. 33	·1149					
10. 34	6. 50	8. 52	·1136 ***					
11. 18	5. 30							
14. 28	7. 30 (†)	9. 50	·1126					
		10. 0	·1130					
		10. 27	·1118 ***					
		11. 0	·1130					
		11. 20	·1118					
		11. 29	·1120					
		11. 38	·1114 ***					
		12. 0	·1119					
		13. 0	·1122					
		13. 20	·1130					
		14. 8	·1124					
		14. 30	·1128					
		15. 30	·1126					
		16. 23	·1112					
		16. 44	·1124					
		17. 35	·1128					
		17. 46	·1134					
		18. 0	·1130					
		18. 5	·1134					
		18. 47	·1134					
		19. 3	·1124					
		19. 40	·1128					
		21. 40	·1116 ***					
		22. 10	·1114					
		22. 20	·1118					
		22. 35	·1117					
		23. 23	·1125					
		23. 45	·1126					
Aug.23		Aug.23		Aug.23		Aug.23		
1. 53	22. 18. 0	0. 15	·1122	0. 15	·01590	1. 40	63 ·0	66 ·0
5. 15	11. 40	1. 34	·1132	3. 50:	·01680	3. 40	64 ·0	66 ·5
5. 41	4. 50	1. 57	·1129	7. 10	·01531	9. 40	62 ·0	64 ·0
6. 43	8. 30	2. 20	·1142	8. 12	·01638	21. 40	57 ·0	59 ·0
7. 47	8. 0	2. 33	·1140	9. 48	·01630			
8. 3	6. 15	2. 50	·1146	10. 52	·01673			
8. 13	7. 30	3. 2	·1146		·01655			
8. 47	6. 0	3. 52	·1132	14. 50	·01587			
9. 8	2. 10	4. 30	·1146	15. 15	·01558			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

August 20. The adjustments of the Horizontal Force were altered, and the scale-reading was increased by 0·0110 nearly.

August 21. The Photographic Registers of the Horizontal Force and Declination were very faint, and the times of interruption of the Registers were not distinguishable. The range for the day of the Declination Magnet was between 21°. 58′ and 22°. 18′, and that of the Horizontal Force between 0·1102 and 0·1155.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 23		Aug. 23		Aug. 23				
h m	° ′ ″	h m		h m		h m		
9. 36	22. 6. 30	5. 0	·1142	21. 54	·01508			
9. 53	1. 25	5. 9	·1136	22. 53:	·01520			
10. 8	4. 45	5. 16	·1142	23. 59	·01460			
10. 25	2. 30	5. 27	·1140					
11. 0	5. 0	5. 46	·1155					
11. 13	11. 0	6. 8	·1142					
11. 33	6. 30	6. 32	·1154					
13. 11	4. 45	7. 5	·1142					
14. 18	9. 30	7. 36	·1138					
14. 48	13. 0	7. 45	·1140					
15. 15	10. 0	8. 0	·1137					
16. 51	6. 30	8. 15	·1154					
17. 33	7. 10	8. 57	·1135					
18. 2	8. 10	9. 15	·1150					
	***	9. 37	·1144					
20. 17	3. 15	10. 0	·1152					
22. 30	6. 25	10. 21	·1138					
23. 59	11. 25	10. 30	·1142					
		10. 52	·1136					
		11. 4	·1138					
		11. 15	·1126					
		11. 27	·1140					
		11. 53	·1150					
		13. 2	·1137					
		14. 14	·1142					
		14. 30	·1138					
		15. 2	·1149					
		15. 25	·1144					
		16. 40	·1150					
		17. 15	·1142					
		17. 45	·1146					
		17. 56	·1142					
		18. 52	·1136					
		19. 55	·1144					
		20. 5	·1140					
			***					
		23. 59	·1124					
Aug. 24		Aug. 24		Aug. 24		Aug. 24		
0. 14	22. 14. 0	0. 0	·1124	0. 12	·01442	1. 40	60 ·0	62 ·0
0. 51	16. 25	0. 45	·1128	2. 8:	·01178	3. 40	64 ·0	65 ·7
3. 20	16. 15	1. 35	·1124	3. 37	·00792	8. 55	64 ·0	63 ·0
5. 53	11. 50	2. 30	·1123	5. 8	·00872	21. 40	58 ·0	60 ·0
7. 3	11. 0	3. 15	·1130	6. 20	·00885			
7. 40	4. 30	4. 5	·1124	7. 23	·00833			
8. 3	6. 0	4. 45	·1130	8. 1	·00867			
8. 16	2. 50	5. 30	·1123	9. 31	·00865			
8. 38	7. 50	7. 25	·1128	11. 46	·00900			
8. 48	7. 0	8. 0	·1142	15. 15	·01262			
9. 15	9. 25	8. 44	·1130	17. 28	·01570			
9. 57	9. 40	9. 5	·1133	17. 32	·01555			
10. 5	11. 0	9. 30	·1126	18. 23	·01525			
10. 28	7. 10	10. 0	·1128	19. 23	·01536			
10. 38	10. 10	10. 17	·1124	21. 40	·01562			
10. 55	8. 0	11. 0	·1133	23. 59	·01450			
11. 40	10. 35	11. 50	·1132					
11. 52	9. 0	12. 8	·1136					
13. 35	11. 45	16. 23	·1142					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 24		Aug. 24						
h m	° ′ ″	h m		h m		h m		
14. 25	22. 10. 10	16. 40	·1128					
15. 28	11. 40	17. 25	·1134					
16. 22	9. 30	17. 57:	·1143					
	***	18. 57	·1129					
17. 47	12. 30	19. 30	·1138					
18. 56	8. 0	20. 40	·1134					
19. 20	10. 5	21. 14	·1124					
19. 38	7. 5	21. 53	·1126					
20. 20	5. 0	23. 25	·1104					
22. 13	8. 0	23. 59	·1110					
23. 59	16. 10							
Aug. 25		Aug. 25		Aug. 25		Aug. 25		
0. 4	22. 16. 20	0. 5	·1113	0. 15	·01430	1. 40	61 ·0	63 ·0
	***	0. 50	·1121		***	3. 40	62 ·0	64 ·0
1. 10	18. 30	1. 40	·1123	1. 3	·01365	9. 40	64 ·0	65 ·0
1. 55	16. 20	2. 20	·1116	2. 37	·01148	21. 40	63 ·0	64 ·0
2. 53	17. 30	4. 50	·1120		***			
3. 58	15. 20	6. 30	·1148	3. 43	·01070			
5. 23	11. 0	6. 38	·1142		***			
5. 52	12. 15	7. 27	·1149	6. 37	·00765			
7. 17	7. 30	7. 44	·1142		(†)			
7. 35	8. 30	8. 14	·1146	9. 28	·00807			
8. 25	7. 50	8. 19	·1143	10. 24	·00806			
8. 50	6. 10	8. 53	·1154	11. 5	·00746			
9. 8:	7. 50	9. 50	·1136		***			
9. 40	4. 15	10. 10	·1136	12. 38	·00721			
10. 8	7. 50	10. 35	·1162	14. 21	·00787			
10. 21	6. 0	11. 12	·1118	14. 46	·00757			
10. 35	6. 10	11. 57	·1158	17. 2	·00838			
10. 58	12. 10	12. 15	·1152	21. 4:	·01150			
11. 3	11. 0	12. 25	·1154	23. 59	·01132			
11. 15	15. 0	12. 40	·1150					
11. 26	11. 40	12. 47	·1120					
11. 40	14. 20	13. 20	·1155					
11. 56	13. 10	14. 23	·1140					
12. 2	14. 0	15. 8	·1142					
12. 48	8. 50		***					
	***	16. 0	·1160					
13. 53	9. 45	16. 15	·1160					
14. 16	15. 30	16. 53	·1128					
	***		***					
15. 48	10. 0	18. 17	·1140					
16. 20	14. 40	18. 31	·1148					
	***	18. 50	·1136					
18. 32	10. 30	19. 15	·1144					
18. 46	8. 10	19. 50	·1140					
19. 30	6. 0	20. 15	·1130					
19. 58	6. 10	20. 35	·1132					
20. 17	4. 30		***					
20. 51	6. 40	21. 38	·1112					
21. 19	5. 35	23. 15	·1124					
21. 47	9. 15	23. 28	·1130					
22. 37	9. 40	23. 59	·1112					
23. 58	15. 25							
Aug. 26		Aug. 26		Aug. 26		Aug. 26		
0. 28	22. 16. 35	0. 0	·1112	0. 30	·01132	1. 40	63 ·0	65 ·0
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.26		Aug.26		Aug.26		Aug.26		
h m	° ′ ″	h m		h m		h m	°	°
1. 15	22. 18. 35	0. 28	·1130	2. 54:	·01113	3. 40	64 ·0	66 ·0
	***	0. 55	·1126	5. 0	·00880	8. 35	65 ·0	66 ·0
2. 5	16. 50	1. 14	·1136		***	21. 40	60 ·0	61 ·5
2. 14	18. 45	2. 8	·1126	9. 40	·00815			
	***	2. 16	·1132	11. 3	·00858			
4. 32	14. 40	2. 55	·1136	11. 38	·00827			
5. 3	5. 15	3. 23	·1130	17. 46	·01102			
5. 40	9. 15	4. 3	·1134	21. 27	·01370			
6. 2	8. 15	4. 24	·1140	23. 0	·01405			
8. 5	11. 0	4. 45	·1133	23. 59	·01372			
8. 20	8. 50	5. 10	·1154					
8. 55	7. 0	5. 20	·1154					
9. 6	2. 35	5. 45	·1142					
9. 35	9. 20	5. 58	·1146					
9. 46	7. 35	6. 8	·1142					
10. 42	7. 35	6. 17	·1144					
11. 7	17. 15	6. 38	·1140					
12. 13	7. 40	6. 50	·1146					
13. 40	5. 40	7. 4	·1136					
14. 29	14. 35	7. 28	·1144					
	***	8. 53	·1142					
15. 50	11. 10	9. 10	·1164					
16. 6	12. 0	9. 36	·1150					
17. 20	7. 35	10. 40	·1140					
17. 41	8. 40	10. 53	·1133					
	***	11. 20	·1147					
20. 10	6. 0		***					
20. 57	6. 10	12. 15	·1144					
23. 4	15. 20	12. 30	·1136					
23. 59	18. 15	13. 20	·1154					
		14. 10	·1134					
		14. 55	·1156					
			***					
		15. 40	·1154					
		16. 2	·1164					
		17. 9	·1153					
		17. 30	·1158					
		17. 45	·1148					
		18. 5	·1150					
		18. 31	·1132					
		19. 35	·1136					
		21. 0	·1126					
		22. 10	·1100					
		22. 30	·1106					
		22. 46	·1095					
		23. 59	·1112					
Aug.27		Aug.27		Aug 27		Aug.27		
0. 14	22. 18. 30	0. 0	·1112	0. 15	·01367	1. 40	62 ·0	64 ·0
0. 43	18. 0	0. 15	·1113	1. 15	·01342	3. 40	63 ·0	65 ·0
1. 23	20. 0	0. 23	·1112	3. 38	·01138	9. 40	63 ·7	65 ·7
2. 7	19. 50	0. 50	·1120	6. 2	·00838	23. 17	58 ·0	61 ·0
2. 22	16. 45	1. 46	·1116	10. 23	·00810			
3. 14	13. 50	2. 3	·1133	13. 35	·00965			
4. 12	13. 40		***	17. 2	·01488			
5. 14	9. 30	2. 20	·1120	17. 35	·01456			
5. 56	10. 0	2. 45	·1130		(†)			
6. 43:	6. 30		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.27		Aug.27						
h m	° ′ ″	h m		h m		h m	°	°
7. 25	22. 8. 30	3. 16	·1126					
11. 23	11. 30		***					
11. 38	10. 35	3. 28	·1138					
12. 40	12. 0	3. 30	·1130					
12. 44	12. 35	3. 34	·1134					
13. 15	18. 25	3. 46	·1132					
13. 52	13. 0	3. 52	·1137					
15. 42	8. 50		***					
16. 53	9. 10	4. 3	·1129					
17. 12	11. 30	4. 14	·1132					
	(†)	4. 47	·1120					
			***					
		6. 0	·1124					
		6. 8	·1118					
			***					
		6. 44	·1138					
			***					
		7. 3	·1134					
		7. 23	·1142					
		7. 44	·1134					
		8. 30	·1146					
		9. 0	·1138					
		10. 0	·1138					
		10. 28	·1148					
		10. 50	·1140					
		11. 23	·1140					
		12. 4	·1150					
		12. 52	·1136					
		13. 10	·1151					
		13. 43	·1140					
		15. 14	·1146					
		17. 5	·1135					
		17. 16	·1141					
		17. 34	·1139					
			(†)					
		23. 17	·1129*					
Aug.28		Aug.28		Aug.28		Aug.28		
0. 17	22. 16. 10	0. 0	·1130	0. 13	·01332	10. 7	62 ·0	64 ·0
1. 15	18. 0	2. 0	·1126	1. 38	·01240	21. 40	57 ·0	59 ·0
3. 5	14. 55	3. 13	·1132	3. 58	·00740			
3. 46	11. 50	4. 5	·1128	8. 55	·00845			
5. 30	8. 25	5. 23	·1135	11. 13	·00810			
7. 5	7. 10	10. 2	·1130	14. 25:	·00870			
9. 10	10. 0	10. 47	·1147	21. 46	·01554			
10. 17	10. 25	11. 28	·1133	23. 59	·01521			
10. 36	8. 30	18. 15	·1139					
11. 0	10. 30	20. 0	·1130					
11. 21	9. 0	23. 0	·1126					
11. 47	10. 0	23. 38	·1130					
14. 53	9. 30							
15. 40	10. 45							
16. 45	9. 10							
18. 0	9. 0							
20. 1	6. 5							
21. 52	7. 0							
23. 59	13. 30							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 29		Aug. 29		Aug. 29		Aug. 29		
h m	° ′ ″	h m		h m		h m	°	°
0. 7	22. 13. 30	1. 0	·1146	0. 30	·01405	1. 40	59·0	60·0
1. 5	15. 50	1. 54	·1140	2. 23	·01288	3. 40	63·0	65·0
7. 5	6. 35	2. 40	·1144	3. 56	·00870	9. 40	63·0	65·0
9. 57	9. 15	3. 5	·1138	7. 23	·00876	21. 40	59·0	61·0
11. 0	7. 0	3. 41	·1138	8. 22	·00930			
12. 26	9. 30	4. 15	·1134	10. 13	·00876			
17. 3	8. 10	5. 15	·1140	14. 9	·01088			
20. 21	5. 15	5. 50	·1134	17. 30	·01570			
21. 28	7. 0	6. 15	·1134	22. 0	·01540			
23. 47	14. 0	6. 30	·1154	23. 59	·01400			
		8. 34	·1154					
		9. 10	·1160					
		10. 15	·1158					
		10. 33	·1164					
		11. 8	·1166					
		11. 34	·1158					
		12. 23	·1156					
		12. 40	·1160					
		18. 38	·1164					
		18. 58	·1168					
		19. 25	·1160					
		22. 2	·1146					
		23. 47	·1144					
Aug. 30		Aug. 30		Aug. 30		Aug. 30		
0. 0	22. 14. 30	2. 15	·1126	0. 50	·01248	1. 40	63·0	65·0
1. 23	16. 10	3. 44	·1110	2. 16	·00870	3. 40	66·0	68·0
3. 30	10. 0	5. 53	·1104	3. 55	·00930	9. 40	61·0	63·0
5. 6	7. 0	8. 45	·1114		·01062	21. 40	58·0	60·0
13. 17	10. 10	10. 20	·1108	4. 51	·00930			
18. 15	8. 5	11. 35	·1120	7. 32	·00900			
20. 38	6. 0	11. 45	·1120	10. 5	·01025			
22. 10	9. 30	18. 43	·1122	15. 27	·01584			
23. 5	13. 25	18. 55	·1126	22. 15	·01550			
23. 45	14. 0	19. 15	·1118	23. 59	·01432			
		22. 55	·1093					
		23. 16	·1092					
		23. 59	·1102					
Aug. 31		Aug. 31		Aug. 31		Aug. 31		
0. 0	22. 14. 25	0. 0	·1102	0. 20	·01402	1. 40	62·0	64·0
1. 11	15. 0	0. 15	·1106	2. 1	·01170	3. 40	63·0	65·5
5. 38	8. 40	0. 23	·1102	3. 17	·00860	8. 25	64·0	66·0
8. 15	9. 25	1. 0	·1108	5. 21	·00912	21. 40	61·0	62·0
9. 2	6. 15	1. 40	·1105		·01042			
10. 2	9. 50	2. 45	·1108	7. 23	·00927			
10. 33	4. 25	3. 30	·1103	10. 26	·00990			
10. 53	5. 20	4. 40	·1106	15. 0	·01375			
11. 13	4. 30	5. 14	·1096	16. 17	·01540			
11. 55	7. 30	6. 5	·1102	18. 37	·01572			
12. 48	9. 40	6. 15	·1107	21. 32	·01550			
13. 16	7. 0		***	23. 59	·01408			
13. 40	13. 0	7. 25	·1102					
14. 5	11. 5		***					
14. 35	6. 30	7. 45	·1109					
15. 22	3. 0	9. 50	·1108					
15. 42	4. 50	10. 3	·1128					
15. 55	3. 25	11. 0	·1106					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 31		Aug. 31						
h m	° ′ ″	h m				h m	°	°
16. 17	22. 5. 10	11. 30	·1104					
	***	12. 15	·1110					
16. 51	0. 0	12. 35	·1112					
	***	12. 55	·1108					
17. 29	7. 0	13. 27	·1107					
17. 38	5. 25	14. 30	·1118					
18. 42	7. 0	15. 0	·1100					
19. 51	4. 30	15. 14	·1102					
21. 17	5. 10	15. 35	·1118					
21. 26	8. 30	16. 32	·1128					
23. 11	15. 15	16. 45	·1118					
23. 59	16. 10		***					
		17. 15	·1122					
			***					
		17. 30	·1116					
		17. 40	·1122					
		18. 25	·1124					
		19. 55	·1114					
		21. 14	·1116					
		21. 33	·1100					
		21. 45	·1104					
		22. 50	·1098					
		23. 58	·1102					
Sept. 1		Sept. 1		Sept. 1		Sept. 1		
0. 27	22. 16. 0	1. 5	·1136	0. 30	·01275	1. 40	63·0	65·0
2. 15	17. 10	1. 35	·1148	4. 38	·00920	3. 40	64·0	66·0
5. 2	11. 30	4. 14	·1150	5. 58	·00932	9. 40	61·0	63·0
8. 25	12. 10	5. 44	·1142	7. 8	·00920	21. 40	58·0	60·0
9. 7	8. 30	9. 33	·1151	8. 17	·00948			
9. 28	9. 25	10. 0	·1159	12. 28	·00897			
10. 0	8. 10	10. 46	·1148	14. 5	·00973			
10. 43	12. 0	11. 0	·1152	14. 58	·00948			
11. 6	11. 10	11. 8	·1148	15. 15	·00832			
11. 43	12. 30	11. 27	·1148	15. 17	·00900			
11. 58	10. 10	11. 33	·1176	15. 35	·00680			
12. 19	14. 0	11. 40	·1170		***			
12. 48	13. 45	11. 45	·1173	17. 22	·01105			
13. 17	9. 0	12. 8	·1198	18. 58	·01100			
13. 57	10. 30		***	19. 48	·00990			
14. 22	7. 10	12. 33	·1164		***			
14. 32	9. 10	12. 40	·1168	20. 35	·01197			
14. 40	8. 0	12. 45	·1162		***			
15. 2	33. 35		***	22. 40	·01400			
	(†)	13. 32	·1168	23. 59	·01438			
15. 31	23. 30	13. 44	·1162					
15. 47	8. 0		***					
15. 53	10. 30	14. 30	·1178					
16. 13	22. 1. 0	15. 16	·1160					
16. 25	21. 59. 20	15. 25	·1128					
16. 39	22. 4. 15	15. 45	·1102					
17. 2	7. 25	15. 47	·1108					
17. 17	7. 0	15. 55	·1102					
17. 20	8. 45	16. 14	·1136					
17. 23	6. 25	16. 20	·1126					
17. 26	9. 20	16. 45	·1146					
17. 29	6. 20	17. 17	·1150					
17. 32	9. 5	17. 20	·1156					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 1		Sept. 1						
h m	° ′ ″	h m		h m		h m	°	°
17. 36	22. 7. 20	17. 25	·1148					
18. 50	23. 0	17. 27	·1154					
19. 13	21. 20	17. 30	·1146					
19. 43	25. 25		***					
20. 5	21. 10	17. 55	·1152					
20. 25	20. 25	18. 50	·1064					
20. 38	24. 50	18. 55	·1086					
21. 3	17. 30		***					
21. 34:	21. 0	19. 8	·1077					
22. 12	18. 5	19. 30	·1036					
22. 18	20. 20	19. 38	·1040					
23. 16	18. 30	19. 44	·1036					
23. 21	21. 0	19. 45	·1044					
	***	19. 52	·1024					
23. 43	23. 20	20. 10	·1064					
23. 59	22. 15	20. 23	·1050					
		20. 36	·1064					
			***					
		21. 5	·1056					
		21. 32	·1084					
		22. 0	·1074					
			***					
		23. 38	·1094					
		23. 50	·1084					
Sept. 2		Sept. 2		Sept. 2		Sept. 2		
0. 18	22. 24. 0	0. 0	·1084	0. 15	·01465	1. 40	61 ·0	63 ·0
0. 33	21. 0	0. 27	·1086	1. 13	·01522	3. 40	62 ·0	64 ·0
0. 48	21. 20	0. 44	·1112	1. 56	·01515	9. 40	59 ·0	62 ·8
0. 58	19. 30	0. 47	·1109	2. 48	·01612	21. 40	54 ·0	57 ·0
2. 15	22. 50	1. 11	·1141	3. 56	·01837			
2. 30	19. 50	1. 50	·1086	4. 5	·01812			
2. 48	19. 10		***	4. 17	·01850			
3. 5	23. 30	2. 44	·1116	4. 25	·01798			
3. 23	20. 15		***	4. 40	·01814			
3. 47	24. 50	3. 0	·1141	4. 50	·01792			
4. 15	18. 50		***	5. 9	·02015			
4. 17	20. 0	3. 13	·1124	5. 18	·02050			
	***	3. 22	·1132	5. 39	·01770			
4. 47	18. 0	3. 29	·1157	5. 47	·01788			
5. 0	20. 30	3. 38	·1150	6. 43	·01658			
5. 45	3. 30	3. 40	·1156	7. 23	·01640			
6. 5	11. 30	3. 45	·1150	7. 51	·01670			
6. 30:	14. 0	3. 56	·1162	9. 45	·01628			
7. 15	12. 0	4. 10	·1126	10. 2	·01570			
7. 39	0. 0	4. 18	·1161	10. 12	·01570			
8. 28	13. 0	4. 25	·1134	10. 25	·01480			
8. 48	11. 10	4. 40	·1174		***			
9. 6	6. 0	4. 45	·1160	11. 6	·01402			
9. 15	9. 50		***	11. 20	·01418			
9. 26	9. 45	5. 0	·1156		***			
9. 43	14. 30	5. 13	·1215	11. 40	·01318			
9. 51	8. 50	5. 15	·1118		***			
9. 59	9. 40	5. 28	·1206	13. 2	·01130			
10. 8	6. 40	5. 40	·1124	13. 17	·01140			
10. 23	9. 30	5. 46	·1148	13. 50	·01312			
10. 35	4. 10	5. 44	·1140	13. 55	·01302			
10. 46	9. 0		***	14. 16:	·01373			
					***			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 2		Sept. 2		Sept. 2				
h m	° ′ ″	h m		h m		h m	°	°
10. 53	22. 6. 50	6. 43	·1118	15. 20	·01203			
11. 21	22. 17. 10	6. 53	·1137	15. 48	·01180			
11. 37	21. 58. 0	7. 0	·1122	16. 26	·01290			
11. 43	22. 5. 35	7. 8	·1122	17. 8	·01210			
11. 53	21. 52. 10	7. 25	·1100	17. 52	·01292			
12. 10	22. 7. 10	7. 50	·1124	18. 20	·01247			
12. 37	21. 55. 35	7. 58	·1121	18. 43	·01302			
12. 48	52. 35	8. 13	·1128	21. 53	·01423			
12. 55	53. 50		***	22. 2	·01385			
13. 8	47. 50	9. 2	·1116	22. 54	·01530			
13. 17	52. 50	9. 14	·1121	23. 59	·01573			
13. 28	21. 45. 45	9. 45	·1089					
13. 56	22. 3. 0	9. 55	·1102					
14. 4	1. 50	10. 5	·1092					
14. 23	4. 10		***					
14. 42	1. 20	10. 45	·1128					
15. 2	19. 10	10. 50	·1123					
15. 7	18. 35	11. 0	·1132					
15. 16	20. 10	11. 27	·1096					
15. 28	13. 10	11. 36	·1122					
15. 33	14. 25	11. 45	·1082					
15. 55	5. 10	12. 0	·1132					
16. 10	3. 40	12. 15	·1102					
16. 47	32. 25	12. 30	·1108					
17. 15	13. 0	12. 38	·1103					
17. 40	7. 5		***					
18. 8	16. 10	13. 5	·1120					
	***	13. 16	·1106					
18. 43	14. 30	13. 30	·1118					
18. 57	9. 30	13. 40	·1110					
19. 7	17. 50	13. 46	·1113					
19. 18	11. 30	13. 55	·1106					
19. 25	18. 30	14. 14	·1114					
	***	14. 40	·1105					
20. 28	6. 0	14. 53	·1090					
20. 38	15. 0	15. 14	·1130					
20. 55	7. 30	15. 19	·1124					
	***		***					
21. 12	9. 30	15. 36	·1131					
21. 23	16. 20	15. 45	·1121					
21. 28	13. 35	16. 23	·1170					
	***	16. 43	·1138					
21. 43	20. 0	16. 55	·1148					
	***	17. 0	·1165					
22. 51	16. 30	17. 40	·1126					
22. 59	18. 20	17. 46	·1128					
23. 10	15. 40		***					
23. 55	17. 10	18. 35	·1042					
			***					
		19. 8	·1087					
		19. 18	·1048					
		19. 25	·1064					
		19. 30	·1056					
		19. 33	·1064					
		19. 36	·1054					
		19. 55	·1073					
		20. 0	·1066					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.
h m	° ′ ″
Sept. 3	
0. 0	22. 19. 30
0. 47	21. 30
1. 28	25. 50
2. 13	21. 20
2. 27	22. 20
3. 20	20. 35
4. 44	13. 15
6. 20	12. 0
7. 13	6. 0
7. 33	9. 0
8. 2	9. 30
8. 25	6. 0
9. 4	10. 30
10. 8	7. 30
10. 27	9. 35
10. 33	22. 13. 45
11. 0	21. 59. 20
11. 8	22. 3. 10
11. 11	1. 30
11. 18	12. 0
11. 29	3. 30
11. 40:	7. 0
12. 1	1. 0
12. 15	3. 0
12. 18	0. 0
12. 38	10. 0
12. 47	6. 50
13. 3	13. 0
13. 22	8. 30
13. 46	11. 25
14. 0	9. 0
14. 55	22. 10. 0
15. 28	21. 56. 0
16. 15	22. 3. 25
17. 3	2. 50
18. 13	7. 30
19. 18	4. 50

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
Sept. 2	
20. 20	·1066
	***
20. 38	·1093
20. 45	·1078
20. 55	·1078
21. 13	·1058
21. 24	·1072
21. 44	·1056
	***
22. 14	·1068
22. 20	·1064
22. 29	·1076
22. 32	·1070
22. 55	·1090
23. 5	·1076
23. 23	·1088
23. 29	·1084
23. 44	·1086
23. 53	·1082
Sept. 3	
2. 10	·1134
2. 42	·1138
3. 29	·1130
3. 50	·1139
4. 15	·1118
4. 30	·1116
6. 13	·1128
6. 40	·1110
7. 2	·1126
7. 10	·1118
7. 23	·1128
7. 45	·1108
7. 59	·1120
8. 2	·1114
8. 20	·1124
8. 28	·1134
	***
8. 50	·1118
9. 0	·1127
9. 8	·1122
9. 43	·1117
9. 55	·1124
10. 16	·1118
10. 40	·1082
11. 10	·1194
11. 20	·1157
11. 29	·1164
11. 50	·1116
	***
12. 5	·1127
12. 20	·1148
12. 40	·1118
12. 54	·1140
13. 30	·1102
13. 56	·1131
14. 14	·1126
14. 23	·1130

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Sept. 3	
0. 35	·01540
2. 23:	·01393
4. 2	·01015
5. 17:	·00920
6. 28	·00900
7. 14	·00948
7. 30	·00928
8. 15	·00943
10. 8	·00850
10. 28	·00788
10. 42	·00802
10. 47	·00766
10. 54	·00795
11. 1	·00715
11. 8	·00740
11. 30	·00698
	***
12. 18	·00752
12. 38	·00712
12. 48	·00728
13. 5	·00692
15. 17	·00765
15. 50	·00808
17. 14	·00850
20. 0	·00982
21. 43	·00993
23. 59	·00914

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
h m	°	°
Sept. 3		
1. 40	57 ·0	59 ·0
3. 40	61 ·0	63 ·5
9. 40	60 ·0	62 ·0
23. 8	60 ·0	62 ·8

Gottingen Mean Solar Time.	Western Declination.
h m	° ′ ″
Sept. 3	
20. 41	22. 14. 25
21. 28	14. 30
22. 32	18. 30
23. 3	18. 0
23. 59	19. 30
Sept. 4	
0. 5	22. 19. 30
2. 0	21. 0
2. 51	13. 15
	***
4. 36	12. 0
5. 46	9. 35
5. 58	11. 0
10. 31	7. 0
10. 53	9. 35
12. 20	8. 50
13. 0	11. 30
14. 3	9. 0
14. 37	10. 50
17. 26	8. 50
20. 36	9. 50
21. 13	12. 0
23. 59	16. 0

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
Sept. 3	
14. 47	·1114
15. 30	·1136
16. 16	·1124
16. 55	·1126
17. 30	·1110
	***
19. 55	·1112
21. 15	·1081
22. 20	·1100
23. 0	·1096
23. 15	·1102
23. 59	·1094
Sept. 4	
0. 0	·1094
0. 14	·1092
0. 43	·1109
1. 2	·1104
1. 30	·1108
1. 38	·1102
1. 46	·1103
2. 0	·1114
2. 15	·1084
	***
3. 0	·1129
	***
3. 44	·1114
4. 30	·1120
4. 43	·1128
4. 50	·1120
5. 50	·1124
6. 0	·1138
	***
6. 38	·1130
6. 46	·1121
7. 34	·1126
7. 40	·1123
8. 4	·1135
	***
8. 32	·1126
9. 6	·1133
9. 46	·1130
10. 23	·1138
10. 40	·1132
11. 14	·1128
11. 33	·1137
11. 53	·1132
12. 5	·1133
12. 18	·1126
12. 46	·1133
13. 8	·1132
16. 0	·1140
18. 20	·1132
19. 35	·1120
21. 3	·1115
23. 15	·1122
23. 53	·1119

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Sept. 4	
0. 12	·00900
1. 13	·00852
2. 0	·00908
2. 10	·00902
	***
2. 50	·01009
	***
3. 40	·00983
6. 16	·00956
7. 7	·00930
7. 56	·00952
11. 38	·00943
14. 35:	·01036
20. 5	·01400
22. 38	·01470
23. 59	·01434

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
h m	°	°
Sept. 4		
7. 6	64 ·0	65 ·0
21. 40	59 ·0	61 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Sept. 5	
h m	° ′ ″
0. 17	22. 16. 0
3. 6	14. 0
4. 28	11. 0
6. 16	10. 0
9. 45	10. 50
9. 48	8. 30
9. 53	10. 25
11. 10	11. 0
11. 13	14. 50
17. 20	13. 10
19. 44	11. 0
20. 44	13. 10
21. 46	20. 0
	***
23. 0	19. 30
23. 48	26. 20
Sept. 6	
0. 35	22. 25. 10
1. 8	29. 25
1. 20	28. 30
1. 42	32. 10
1. 50	30. 35
2. 8	36. 0
2. 26	36. 10
3. 3	25. 0
3. 10	26. 0
3. 40	21. 25
3. 51	28. 0
4. 12	16. 0
4. 22	16. 30
4. 37	14. 0
5. 7	21. 5
	***
6. 18	16. 25
8. 17	14. 0
9. 42	14. 30
10. 38	12. 40
	***
17. 40	12. 0
	***
20. 25	10. 25
20. 38	12. 25
20. 44	10. 30
21. 10	12. 0
21. 20	10. 30
21. 56	12. 45
22. 13	12. 20
23. 39	16. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Sept. 5	
h m	
0. 45	·1120
	***
3. 0	·1136
4. 9	·1134
4. 29	·1130
5. 33	·1132
6. 30	·1128
7. 35	·1132
8. 5	·1130
8. 28	·1134
9. 35	·1132
12. 40	·1140
15. 8	·1136
18. 15	·1142
19. 28	·1148
20. 27	·1148
21. 0	·1138
22. 0	·1134
22. 9	·1138
22. 16	·1130
	***
23. 25	·1116
23. 44	·1122
23. 47	·1133
23. 56	·1118
Sept. 6	
0. 0	·1130
0. 15	·1106
0. 28	·1114
0. 34	·1109
1. 8	·1141
1. 19	·1126
1. 38	·1136
1. 50	·1118
2. 4	·1154
2. 20	·1126
2. 30	·1136
2. 42	·1122
2. 48	·1138
3. 50	·1113
	***
4. 45	·1130
5. 25	·1120
5. 34	·1111
5. 45	·1116
5. 48	·1110
6. 3	·1120
6. 18	·1108
6. 38	·1124
6. 58	·1118
7. 15	·1124
7. 30	·1112
	***
8. 15	·1116
8. 32	·1125
8. 44	·1116
8. 53	·1120

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Sept. 5	
h m	
0. 15	·01438
1. 20	·01332
3. 30	·00975
	·00993
6. 54	·00997
	·01171
8. 44:	·01098
11. 47:	·01202
14. 52	·01535
22. 5	·01518
23. 46	·01530
23. 59	·01455
Sept. 6	
0. 45	·01447
	***
1. 48	·01314
	***
2. 2	·01325
	***
3. 0	·01070
3. 12	·01080
	***
3. 30	·01202
	***
3. 46	·01233
	***
3. 56	·01175
4. 15	·01200
	***
5. 1	·01128
5. 40	·01125
7. 2	·01030
	·01220
10. 17:	·01215
13. 23	·01630
13. 32	·01612
23. 5	·01535
	·01368
23. 59	·01373

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 5	°	°
h m		
1. 40	61 ·0	63 ·0
3. 40	65 ·0	66 ·0
9. 40	66 ·0	67 ·8
21. 40	59 ·0	60 ·0
Sept. 6		
1. 45	60 ·0	62 ·0
3. 40	65 ·0	67 ·0
21. 40	56 ·0	58 ·0

Göttingen Mean Solar Time.	Western Declination.
Sept. 6	
h m	° ′ ″
23. 46	22. 17. 0
23. 59	12. 0
Sept. 7	
0. 28	22. 18. 0
2. 43	19. 0
2. 56	12. 10
5. 14	14. 30
	*
9. 25	14. 10
10. 28	13. 30
11. 12	11. 10
11. 40	6. 0
11. 57	5. 30
12. 21	8. 45
12. 32	8. 20
12. 58	11. 0
15. 7	11. 40
15. 48:	14. 40
16. 29	12. 30
17. 28	12. 40
	*
19. 48	10. 0
	***
21. 20	11. 15
	***
23. 5	14. 15
23. 53	18. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Sept. 6	
h m	
9. 0	·1116
9. 8	·1122
	***
10. 44	·1122
	***
12. 30	·1126
	***
15. 50	·1138
16. 18	·1136
16. 35	·1140
16. 45	·1134
	***
19. 8	·1139
20. 35	·1132
20. 44	·1126
	***
21. 45	·1228
22. 0	·1124
23. 30	·1118
	***
23. 45	·1122
23. 59	·1114
Sept. 7	
0. 0	·1115
0. 27	·1122
0. 53	·1120
1. 20	·1126
2. 16	·1128
2. 34	·1135
3. 0	·1124
	*
4. 3	·1130
4. 33	·1123
5. 31	·1134
5. 50	·1130
6. 16	·1137
6. 38	·1136
6. 53	·1142
	***
7. 40	·1146
7. 45	·1134
8. 38	·1145
8. 45	·1134
8. 54	·1142
9. 2	·1138
9. 9	·1148
9. 15	·1140
9. 28	·1138
9. 44	·1144
10. 40	·1144
10. 48	·1132
11. 0	·1138
11. 32	·1132
	***
18. 30	·1144
	***
21. 14	·1136

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Sept. 7	
h m	
0. 20	·01372
2. 32:	·01270
5. 20	·00890
6. 22	·00856
	***
8. 31	·00857
11. 35	·00828
16. 20	·00983
19. 40	·01240
22. 24	·01410
23. 59	·01444

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 7	°	°
h m		
1. 40	59 ·0	61 ·0
3. 40	62 ·0	64 ·4
9. 40	62 ·5	66 ·0
21. 40	59 ·0	61 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Sept. 7 h m		h m		h m		
		22. 46	·1122					
		23. 32	·1125					
Sept. 8		Sept. 8		Sept. 8		Sept. 8		
0. 0	22. 18. 30	0. 3	·1120	0. 30	·01442	1. 40	59 ·0	61 ·0
1. 38	22. 0		***	2. 25:	·01375	3. 40	61 ·0	63 ·5
3. 53	16. 10	7. 40	·1145	5. 30:	·01080	11. 0	61 ·0	63 ·0
6. 0	12. 45	11. 50	·1138	7. 47	·00862	21. 40	59 ·0	61 ·0
6. 45	12. 25	19. 0	·1148		·00882			
8. 35	14. 30	22. 0	·1127	12. 0	·00850			
10. 14	14. 30	22. 20	·1128	15. 10:	·00932			
11. 28	15. 30	23. 0	·1122	21. 17:	·01296			
11. 45	14. 10	23. 30	·1126	23. 59	·01316			
12. 51	13. 0	23. 59	·1122					
13. 57	14. 25							
14. 13	13. 30							
17. 47	13. 0							
19. 39	11. 10							
19. 47	9. 0							
21. 20	8. 0							
23. 5	12. 10							
23. 36	15. 10							
23. 48	14. 50							
23. 59	15. 10							
Sept. 9		Sept. 9		Sept. 9		Sept. 9		
0. 22	22. 16. 0	0. 5	·1124	0. 20	·01310	1. 40	60 ·0	62 ·0
2. 30	18. 30	2. 20	·1136	3. 26	·01015	3. 40	64 ·0	66 ·0
2. 48	16. 50	2. 53	·1130	5. 2	·00888	9. 40	64 ·0	65 ·3
6. 51	10. 30	4. 11	·1142		·00913	21. 40	60 ·0	63 ·0
8. 11	11. 30	9. 50	·1147	8. 15	·00918			
8. 30	11. 10	10. 58	·1136	10. 0	·00898			
9. 15	12. 10	11. 30	·1147	16. 38	·01160			
9. 23	10. 15	12. 0	·1142	20. 26:	·01362			
9. 48	8. 30	18. 8	·1150	21. 54	·01388			
10. 27	9. 0	20. 0	·1145	23. 55	·01335			
10. 50	11. 0	23. 2	·1128					
11. 31	10. 0	23. 20	·1132					
12. 33	11. 30	23. 30	·1131					
16. 28	10. 30	23. 59	·1128					
20. 56	8. 50							
23. 31	15. 0							
23. 42	14. 30							
23. 59	16. 0							
Sept. 10		Sept. 10		Sept. 10		Sept. 10		
0. 16	22. 15. 30	0. 15	·1124	0. 15	·01335	1. 40	64 ·4	65 ·7
1. 5	14. 45	1. 8	·1130		·00865	3. 40	65 ·0	66 ·0
1. 47	15. 0	2. 5	·1140	2. 44	·00927	6. 14	65 ·2	66 ·0
4. 43	11. 10	2. 58	·1136	7. 30	·00935	23. 3	56 ·0	58 ·0
7. 2	11. 0	5. 4	·1140	9. 35	·00931			
10. 22	12. 15	5. 23	·1148	12. 55:	·01102			
11. 0	3. 0	5. 39	·1143	16. 36	·01582			
11. 19	3. 0		***	16. 48	·01568			
11. 36	6. 0	9. 28	·1152	21. 5	·01522			
12. 17	7. 0	9. 46	·1146	22. 14	·01498			
12. 40	6. 40	10. 30	·1138	23. 59	·01475			
13. 5	8. 0	10. 50	·1146					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Sept. 10						
h m	° ′ ″	h m		h m		h m		
13. 35	22. 6. 30	11. 27	·1132					
14. 35	10. 25	12. 15	·1144					
18. 44	9. 40	12. 45	·1141					
19. 1	9. 0	13. 9	·1148					
21. 17	9. 30	19. 45	·1150					
23. 59	14. 50	21. 50	·1146					
		22. 10	·1140					
		23. 20	·1136					
Sept. 11		Sept. 11		Sept. 11		Sept. 11		
0. 16	22. 14. 30	0. 15	·1136	0. 7	·01467	7. 25	66 ·7	68 ·0
1. 3	15. 10	0. 36	·1138	1. 18:	·01338	21. 40	61 ·3	62 ·7
2. 35	12. 50	1. 44	·1131	3. 18	·00925			
4. 16	9. 0	3. 5	·1128	3. 35	·00962			
6. 38	8. 10	4. 42	·1134	4. 45	·00988			
7. 4	7. 30	5. 10	·1128	8. 2	·00998			
8. 31	9. 45	6. 5	·1136	10. 8	·00965			
9. 18	10. 0	6. 17	·1133	14. 28	·01130			
9. 51	6. 30		***	19. 40	·01580			
10. 21	5. 35	9. 15	·1136	23. 59	·01570			
11. 3	9. 35	9. 28	·1140					
11. 32	10. 40	9. 44	·1134					
11. 52	6. 10	10. 0	·1138					
12. 17	8. 0	10. 20	·1131					
12. 53	7. 0	11. 32	·1130					
13. 18	8. 10	12. 0	·1138					
14. 43	5. 30	13. 20	·1133					
15. 37	7. 50	13. 48	·1146					
16. 35:	3. 50	14. 36	·1135					
17. 30	6. 5	15. 17	·1136					
18. 23	6. 0	16. 10	·1146					
19. 46	7. 0	16. 30	·1144					
19. 55	6. 20	17. 25	·1145					
20. 10	8. 10	17. 53	·1152					
	***	18. 25	·1144					
22. 23	13. 0	20. 0	·1144					
23. 59	17. 30	20. 17	·1136					
		20. 43	·1134					
			***					
		21. 44	·1138					
		21. 54	·1134					
		23. 8	·1132					
		23. 27	·1136					
		23. 59	·1138					
Sept. 12		Sept. 12		Sept. 12		Sept. 12		
0. 36	22. 18. 30	0. 0	·1138	0. 15	·01365	1. 40	63 ·0	66 ·0
2. 12	15. 30	6. 10	·1142	1. 54:	·01426	3. 40	63 ·2	67 ·0
3. 2	12. 50	11. 14	·1132	4. 29	·01000	9. 40	68 ·8	69 ·0
4. 43	10. 10	11. 30	·1131	8. 35	·01030	21. 40	62 ·2	64 ·0
5. 28	9. 40	13. 8	·1140	12. 1	·01022			
7. 56	10. 20	13. 30	·1136	18. 2:	·01285			
9. 31	11. 50	17. 18	·1138	21. 47	·01588			
9. 55	10. 0	22. 0	·1130	23. 59	·01566			
13. 23	9. 50	23. 0	·1131					
13. 42	8. 50	23. 30	·1134					
15. 32	10. 5							
16. 10	8. 45							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Sept. 12 h m	° ′ ″
16. 58	22. 8. 20
17. 38	9. 10
19. 55	10. 10
21. 46	10. 20
22. 53	14. 0
23. 32	13. 50
23. 52	14. 30
Sept. 13	
0. 37	22. 16. 10
2. 53	11. 50
3. 18	10. 0
4. 53	9. 0
7. 21	11. 10
8. 35	11. 15
9. 44	12. 0
12. 10	11. 30
12. 30	10. 40
13. 14	11. 45
13. 43	9. 0
14. 45	8. 0
16. 7	4. 30
16. 58	7. 10
17. 7	6. 30
17. 48	8. 0
20. 32	9. 0
22. 10	11. 30
22. 30	13. 20
22. 38	13. 0
23. 59	15. 15
Sept. 14	
0. 37	22. 17. 0
1. 0	17. 20
2. 12	14. 10
2. 33	12. 0
2. 45	12. 5
3. 35	9. 15
8. 50	10. 0
9. 10	7. 30
9. 27	1. 30
10. 7	9. 25
10. 23	10. 40
11. 8	11. 15
11. 30	13. 25
12. 8	11. 15
12. 44	11. 50
13. 45	10. 0
14. 2	11. 5
14. 28	9. 30
15. 42	10. 20
16. 2	8. 50
16. 16	10. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Sept. 13	
0. 4	·1140
0. 26	·1145
2. 43	·1136
5. 45	·1139
6. 58	·1146
8. 40	·1146
11. 33	·1154
12. 23	·1158
12. 34	·1154
13. 38	·1156
14. 5	·1150
14. 50	·1156
15. 4	·1154
15. 40	·1158
16. 10	·1152
16. 58	·1150
18. 58	·1148
21. 15	·1151
22. 8	·1143
22. 28	·1148
22. 38	·1137
23. 0	·1138 ***
23. 28	·1148
23. 59	·1145 ***
Sept. 14	
0. 15	·1144 ***
2. 35	·1138
3. 16	·1140
3. 38	·1133
3. 46	·1137
3. 52	·1131
4. 3	·1143
4. 40	·1118
5. 25	·1122
6. 5	·1134
6. 55	·1134
7. 20	·1139 ***
8. 28	·1134
9. 2	·1138
9. 23	·1132
9. 40	·1141
10. 45	·1137
12. 0	·1147
12. 30	·1142 ***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Sept. 13	
0. 35	·01575
3. 27:	·01580
8. 0:	·01373
12. 15	·01598 ·01588
16. 1	·01520
19. 5	·01503
22. 32	·01444
23. 59	·01463
Sept. 14	
0. 20	·01450
2. 23:	·01260
3. 47	·00908
4. 2	·00932
8. 45	·00942
12. 15	·00890
15. 1:	·00963
20. 23:	·01228
23. 59	·01303

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 13		
1. 40	62 ·0	63 ·3
3. 40	63 ·0	63 ·3
9. 40	62 ·8	64 ·6
21. 40	55 ·0	57 ·5
Sept. 14		
1. 40	56 ·0	58 ·0
3. 40	62 ·0	64 ·5
9. 40	64 ·7	67 ·0
21. 40	61 ·0	62 ·5

Göttingen Mean Solar Time.	Western Declination.
Sept. 14 h m	° ′ ″
16. 49	22. 9. 20
17. 15	10. 45
18. 20	7. 30
21. 3	9. 50
22. 3	13. 10
23. 59	15. 40
Sept. 15	
1. 40	22. 14. 30*
3. 40	15. 59*
9. 40	10. 34*
21. 45	8. 49*

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Sept. 14	
17. 5	·1142
18. 15	·1148
19. 3	·1142 ***
23. 5	·1140
Sept. 15	
0. 15	·1148
1. 30	·1146
1. 35	·1150 ***
1. 45	·1144
2. 16	·1156
3. 3	·1144
3. 15	·1148 ***
3. 45	·1124 ***
4. 8	·1126
4. 30	·1110 ***
5. 14	·1133
5. 20	·1124 ***
5. 45	·1150
6. 0	·1138
6. 5	·1140
6. 20	·1126
7. 15	·1146
7. 50	·1140 ***
9. 40	·1142
10. 12	·1132 ***
10. 50	·1132
11. 0	·1144
11. 30	·1134
11. 44	·1150 ***
13. 23	·1150
13. 32	·1145
13. 40	·1151
14. 0	·1148 ***
14. 36	·1132 ***
15. 8	·1151 ***
16 20	·1146
18. 35	·1144
19. 0	·1148
19. 43	·1142 ***
21. 10	·1148 ***
22. 14	·1140

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Sept. 15	
0. 15	·01302
1. 58:	·01240
4. 54	·00928 ·00997
6. 16	·00942
10. 8:	·00930
14. 24	·01045
14. 47	·01088
15. 20	·01071
18. 20:	·01242
23. 0	·01330
23. 40	·01312

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 15		
1. 40	64 ·3	67 ·0
3. 40	64 ·5	67 ·0
9. 40	64 ·0	65 ·5
21. 45	62 ·0	63 ·3

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

September 15. There was no Photographic Trace of the Declination Magnet.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Sept. 15 h m		h m		h m	°	°
		22. 46	·1147					
		23. 15	·1145					
		23. 44	·1120					
		23. 59	·1126					
Sept. 16		Sept. 16		Sept. 16		Sept. 16		
0. 35	22. 18. 35	0. 20	·1134	0. 35	·01324	1. 40	64 ·0	65 ·0
1. 2	15. 0	0. 53	·1132	2. 47	·01205	3. 40	65 ·0	66 ·5
1. 16	16. 30		***	5. 59	·00942	9. 40	65 ·8	67 ·0
1. 35	15. 0	1. 45	·1142		·00967	21. 40	60 ·0	62 ·0
2. 5	15. 0	2. 10	·1144	12. 15	·00950			
2. 32	12. 40	2. 33	·1138	15. 44	·01040			
2. 53	13. 20	2. 57	·1144	21. 20	·01327			
3. 50	9. 30	3. 25	·1140	23. 59	·01385			
6. 12	11. 25	3. 40	·1144					
7. 3	11. 0	4. 23	·1140					
8. 28	7. 0		***					
9. 5	9. 30	7. 40	·1144					
17. 38	9. 20	7. 50	·1154					
17. 50	8. 0	8. 6	·1156					
18. 18	9. 10	8. 35	·1146					
	***		***					
21. 28	9. 30	9. 34	·1138					
21. 36	11. 0	10. 14	·1142					
21. 52	10. 0	10. 30	·1140					
22. 50	12. 0	11. 0	·1144					
23. 4	11. 30	12. 55	·1146					
23. 12	13. 0	14. 0	·1143					
23. 59	12. 25		***					
		17. 45	·1148					
		19. 10	·1144					
		21. 40	·1142					
		22. 0	·1134					
		22. 46	·1140					
		23. 3	·1136					
		23. 30	·1145					
		23. 33	·1136					
		23. 59	·1136					
Sept. 17		Sept. 17		Sept. 17		Sept. 17		
0. 16	22. 12. 0	0. 12	·1138	0. 20	·01375	1. 40	64 ·0	65 ·0
4. 16	10. 0	0. 55	·1138	2. 13	·01230	3. 40	68 ·0	69 ·5
5. 25	11. 30	1. 15	·1136	3. 24	·01030	9. 40	68 ·8	70 ·0
7. 46	11. 10	2. 15	·1128		·01058	23. 30	58 ·5	61 ·5
8. 28	10. 0		***	7. 12	·01028			
10. 4	9. 30	4. 16	·1129		·01262			
11. 7	5. 30	4. 30	·1136	8. 29	·01202			
11. 23	7. 10	4. 35	·1130	12. 0	·01410			
11. 46	4. 25	7. 45	·1134	13. 36	·01652			
12. 2	6. 0	11. 8	·1140	19. 0	·01562			
12. 23	6. 0	11. 27	·1159	22. 2	·01500			
12. 47	9. 15	12. 18	·1136	23. 59	·01510			
13. 20	7. 30	12. 46	·1144					
16. 0	10. 0	13. 10	·1144					
17. 54	9. 40	13. 15	·1138					
21. 17	7. 10	14. 3	·1142					
23. 32	11. 30	14. 20	·1136					
		16. 0	·1146					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Sept. 17 h m		h m		h m	°	°
		20. 0	·1151					
		21. 13	·1146					
		23. 30	·1154					
		23. 59	·1152					
Sept. 18		Sept. 18		Sept. 18		Sept. 18		
0. 0	22. 14. 10	0. 15	·1148	0. 24	·01510	9. 40	64 ·5	66 ·5
0. 19	15. 0		***	3. 8	·01338	21. 40	64 ·5	66 ·5
0. 44	14. 0	0. 46	·1154	5. 20	·01062			
1. 43	16. 0	1. 0	·1149	6. 26	·00950			
2. 0	14. 40	1. 46	·1155	7. 45	·00987			
3. 47	12. 45	2. 0	·1150	8. 3	·00960			
5. 25	14. 0		***	8. 40	·00980			
5. 43	11. 30	3. 45	·1158	8. 51	·00957			
6. 2	13. 0	3. 50	·1153	9. 32	·00950			
6. 16	12. 0	3. 53	·1162	9. 47	·00953			
6. 27	12. 30	4. 9	·1164	10. 3	·00942			
6. 38	10. 50		***	10. 24	·00837			
6. 47	11. 10	4. 55	·1157	10. 32	·00843			
7. 3	8. 30	5. 23	·1129	10. 42	·00790			
7. 10	10. 0		***	10. 52	·00847			
7. 28	8. 10	7. 23	·1137	11. 3	·00788			
7. 40	3. 0		***	11. 15	·00819			
7. 51	22. 8. 25	8. 17	·1130	11. 24	·00810			
8. 14	21. 59. 50	8. 29	·1138	12. 46	·00858			
8. 30	22. 6. 5	8. 34	·1131	12. 58	·00838			
8. 35	4. 20	8. 41	·1142	14. 2	·00958			
8. 43	22. 11. 30	9. 0	·1108	14. 38	·00962			
9. 6	21. 58. 0	9. 14	·1120	18. 7	·01312			
9. 28	22. 2. 30	9. 34	·1112	19. 18	·01510			
9. 38	22. 9. 0	9. 53	·1094	22. 32	·01461			
10. 3	21. 58. 30	10. 19	·1148	23. 59	·01485			
10. 10	22. 1. 0	10. 30	·1106					
10. 15	21. 57. 50	10. 35	·1122					
10. 22	22. 8. 15	10. 45	·1108					
10. 30	21. 59. 15	10. 55	·1148					
10. 38	22. 1. 0	11. 8	·1096					
10. 47	21. 56. 35	11. 23	·1137					
10. 58	22. 8. 50	11. 55	·1100					
11. 12	21. 52. 0	12. 9	·1104					
11. 25	22. 0. 0	12. 18	·1113					
11. 44	22. 2. 45		***					
12. 9	21. 57. 0	12. 46	·1106					
12. 18	58. 45	13. 5	·1107					
12. 43	21. 58. 35	13. 20	·1119					
12. 54	22. 8. 30	13. 46	·1114					
13. 12	3. 0	14. 4	·1126					
13. 28	5. 10	14. 30	·1127					
13. 48	0. 50	15. 0	·1105					
	***	15. 29	·1142					
14. 27	4. 0	16. 23	·1138					
14. 35	2. 30	16. 34	·1131					
14. 53	6. 10	17. 8	·1140					
	***	17. 30	·1143					
16. 12	5. 30	18. 0	·1118					
16. 23	1. 0	18. 23	·1122					
16. 35	2. 45	19. 10	·1144					
16. 44	2. 0		***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 18		Sept. 18						
h m	° ′ ″	h m		h m		h m	°	°
17. 45	22. 14. 50	19. 36	·1136					
18. 8	14. 10	19. 45	·1151					
18. 14	15. 5	19. 58	·1136					
	***	20. 4	·1138					
19. 18	10. 20	20. 13	·1123					
	***	20. 21	·1130					
21. 2	10. 0	20. 30	·1132					
21. 8	9. 0	20. 35	·1124					
	***		***					
21. 39	9. 50	23. 59	·1119					
21. 52	11. 30							
	***							
23. 20	13. 30							
23. 30	15. 15							
23. 59	13. 30							
Sept. 19		Sept. 19		Sept. 19		Sept. 19		
1. 2	22. 14. 35	0. 15	·1124	0. 11	·01483	1. 40	60 ·2	62 ·0
2. 30	12. 15	0. 30	·1119	2. 23:	·01228	3. 40	64 ·0	66 ·5
3. 13	12. 30	1. 0	·1122	3. 17	·00980	9. 40	66 ·0	67 ·0
4. 5	9. 10	2. 30	·1121	3. 37	·01014	21. 40	59 ·7	61 ·0
4. 48	8. 50		***	5. 35	·01025			
5. 22	7. 10	4. 0	·1124	9. 29	·00955			
6. 30	12. 10	4. 38	·1128	13. 2	·01135			
6. 43	10. 0	5. 0	·1122	14. 5	·01192			
8. 4	7. 10		***	18. 30	·01583			
8. 10	10. 0	7. 46	·1142	23. 2	·01514			
8. 17	7. 50	8. 3	·1136	23. 59	·01525			
9. 35	8. 30	8. 11	·1140					
10. 27	6. 0	10. 0	·1127					
11. 43	9. 10	10. 16	·1134					
12. 47	6. 40	10. 55	·1124					
13. 57	11. 50	11. 28	·1132					
14. 54	5. 30	11. 40	·1133					
	***	12. 30	·1134					
16. 51	7. 30	13. 0	·1127					
17. 15	6. 0	13. 25	·1151					
19. 5	9. 30	13. 45	·1152					
19. 35	6. 35	14. 30	·1136					
19. 49	7. 50	14. 50	·1136					
20. 2	6. 0	15. 15	·1132					
20. 22	6. 45	16. 35	·1134					
20. 36	5. 50	16. 50	·1140					
20. 55	7. 25	17. 55	·1128					
22. 22	9. 10	19. 5	·1132					
22. 42	11. 35	19. 30	·1128					
22. 51	10. 40	19. 46	·1134					
23. 48	10. 45	19. 58	·1132					
23. 59	15. 0	20. 10	·1136					
		20. 15	·1130					
		20. 38	·1130					
		22. 50	·1120					
		23. 23	·1126					
		23. 40	·1124					
		23. 59	·1122					
Sept. 20		Sept. 20		Sept. 20		Sept. 20		
0. 16	22. 14. 0	0. 15	·1104	0. 35	·01558	1. 40	60 ·0	62 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 20		Sept. 20		Sept. 20		Sept. 20		
h m	° ′ ″	h m		h m		h m	°	°
0. 32	22. 19. 20	0. 32	·1124	2. 28	·01510	3. 40	63 ·0	65 ·0
0. 47	18. 20	0. 38	·1117	3. 43	·01432	9. 40	63 ·0	65 ·0
0. 57	19. 30	1. 0	·1126	7. 13	·00988	21. 40	55 ·0	57 ·0
1. 35	16. 30		***	9. 48	·00878			
2. 0	17. 0	1. 35	·1112	12. 21:	·01073			
2. 28:	20. 30		***	16. 7	·01503			
2. 44	19. 0	1. 46	·1122		·01490			
3. 2	21. 0	1. 59	·1118	23. 59	·01442			
3. 33	8. 30		***					
3. 40	10. 30	2. 33	·1128					
4. 3:	6. 50	2. 35	·1123					
4. 35	11. 50	3. 0	·1126					
4. 57	10. 35	3. 10	·1110					
5. 36	11. 0	3. 40	·1142					
5. 55	12. 35	3. 50	·1132					
6. 20	10. 30	4 4	·1143					
7. 38	9. 50	4. 38	·1135					
7. 59	10. 50	5. 16	·1136					
8. 20	7. 10	5. 35	·1126					
8. 30	8. 0	5. 50	·1130					
8. 47	5. 0	6. 8	·1122					
9. 2	7. 25	6. 16	·1137					
9. 11	5. 45	6. 25	·1132					
9. 35:	12. 30		***					
9. 57	9. 50	7. 40	·1134					
10. 28	9. 10	7. 45	·1138					
10. 57	11. 0	8. 5	·1130					
11. 28	9. 30	8. 53	·1144					
12. 51	13. 10	9. 3	·1140					
13. 2	15. 0	9. 16	·1169					
	***	9. 53	·1138					
16. 7	8. 35	10. 15	·1142					
17. 15	13. 50		***					
17. 50	11. 0	12. 0	·1140					
18. 10	3. 15	12. 16	·1143					
18. 47	9. 50	12. 33	·1140					
21. 43	10. 0	13. 44	·1150					
23. 45	17. 10	14. 20	·1144					
		16. 14	·1150					
		16. 30	·1145					
		16. 38	·1146					
		17. 0	·1132					
		17. 53	·1146					
		18. 0	·1142					
		18. 45	·1148					
		20. 50	·1133					
			***					
		23. 14	·1131					
		23. 45	·1138					
Sept. 21		Sept. 21		Sept. 21		Sept. 21		
0. 0	22. 17. 30	0. 45	·1140	0. 17	·01430	1. 40	59 ·0	60 ·7
0. 22	17. 50	0. 57	·1131	2. 19:	·01218	3. 40	63 ·3	65 ·0
0. 46	20. 0	1. 23	·1136	3. 43	·00885	9. 40	63 ·0	65 ·0
1. 7	18. 20	1. 32	·1132	5. 0	·00921	21. 40	56 ·3	59 ·0
1. 32	19. 0	2. 44	·1142	7. 53	·00917			
1. 43	18. 0	4. 45	·1143	9. 58	·00882			
5. 15	10. 5	5. 20	·1138	11. 32	·00900			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.21		Sept.21		Sept.21				
h m	° ′ ″	h m		h m		h m		
7. 18	22. 9. 5	5. 46	·1142	14. 10:	·01158			
8. 31	10. 0	6. 0	·1138	17. 13	·01513			
9. 2	9. 0	6. 45	·1146	17. 37	·01495			
9. 33	10. 20	7. 8	·1142	22. 7	·01485			
10. 48	11. 0	7. 25	·1146	23. 59	·01452			
11. 13	12. 20	8. 30	·1137					
11. 46	10. 15	8. 45	·1144					
17. 32	12. 25	10. 0	·1144					
20. 0	9. 30	10. 30	·1153					
20. 31	7. 50	10. 45	·1150					
21. 33	7. 50	10. 54	·1158					
23. 10	12. 20	11. 16	·1158					
23. 59	13. 0	11. 33	·1152					
		12. 0	·1143					
		16. 20	·1144					
		16. 53	·1146					
		19. 2	·1138					
			***					
		20. 10	·1146					
		20. 38	·1138					
		21. 53	·1135					
		23. 35	·1124					
		23. 59	·1130					
Sept.22		Sept.22		Sept 22		Sept.22		
0. 30	22. 14. 0	0. 0	·1130	0. 23	·01412	1. 40	57 ·0	61 ·0
1. 42	16. 0	1. 0	·1132	1. 46:	·01250	3. 40	63 ·5	64 ·0
2. 55	15. 0	1. 20	·1128	3. 20	·00907	9. 40	63 ·5	65 ·0
6. 0	10. 30	2. 15	·1128	6. 17	·00924	21. 40	61 ·0	62 ·5
7. 48	11. 35	6. 8	·1144	14. 7	·00888			
13. 47	12. 0	15. 0	·1146	23. 0	·01175			
13. 55	12. 45	18. 0	·1154	23. 59	·01200			
14. 46	11. 15	18. 33	·1150					
16. 31	10. 45	18. 45	·1156					
18. 40	11. 40	22. 30	·1118					
19. 36	11. 0	23. 15	·1116					
19. 42	10. 0	23. 59	·1124					
21. 2	9. 10							
22. 14	11. 0							
23. 58	14. 45							
Sept.23		Sept.23		Sept.23		Sept.23		
0. 30	22. 18. 25	0. 4	·1124	0. 40	·01000	1. 40	61 ·5	63 ·2
0. 45	18. 30	0. 10	·1122	2. 24:	·01050	3. 40	62 ·3	62 ·7
0. 55	17. 0	0. 25	·1128	7. 10:	·00752	9. 40	60 ·0	62 ·3
1. 48	17. 45	0. 30	·1130	14. 0	·01340	21. 40	53 ·7	55 ·0
2. 14	19. 10	1. 5	·1130	17. 45:	·01265			
3. 15	15. 0	2. 38	·1122	20. 0:	·01290			
8. 2	8. 50	4. 40	·1128	23. 45	·01252			
9. 3	11. 10	5. 45	·1120					
11. 4	11. 0	7. 30	·1128					
15. 10	12. 30	7. 42	·1124					
17. 47	11. 5	8. 0	·1127					
19. 39	11. 10	9. 10	·1128					
20. 12	8. 0		***					
21. 7	6. 40	9. 38	·1124					
22. 46	9. 55	10. 45	·1124					
23. 52	13. 10	11. 20	·1130					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Sept.23						
h m	° ′ ″	h m				h m		
		12. 4	·1132					
		15. 32	·1128					
		17. 20	·1134					
		19. 25	·1132					
		21. 30	·1122					
		22. 46	·1112					
		23. 20	·1128					
		23. 46	·1116					
Sept.24		Sept.24		Sept.24		Sept.24		
0. 14	22. 12. 0	0. 0	·1116	0. 0	·01250	1. 40	56 ·5	57 ·3
2. 0	12. 0	1. 35	·1128	2. 0:	·00940	3. 40	59 ·5	60 ·0
5. 47	6. 40	3. 0	·1127	3. 10	·00530	9. 40	59 ·0	60 ·0
6. 53	7. 0		(†)	8. 45	·00495	23. 10	54 ·0	55 ·0
8. 2	4. 35	10. 4	·1135	10. 16:	·00540			
9. 15	8. 20	11. 30	·1130	14. 13:	·00938			
9. 43	6. 0	17. 20	·1138	16. 27	·01298			
10. 28	8. 20	17. 55	·1134	16. 35	·01275			
13. 19	9. 30	19. 5	·1144	21. 30	·01300			
14. 32	7. 40	19. 30	·1142	23. 24	·01262			
15. 2	9. 0	20. 50	·1153					
16. 52	6. 0	22. 45	·1150					
17. 48	6. 0	22. 59	·1158					
18. 53	8. 15	23. 22	·1146					
19. 28	6. 10	23. 59	·1141					
20. 1	8. 0							
20. 10	6. 10							
20. 43	6. 35							
	(†)							
Sept.25		Sept.25		Sept.25		Sept.25		
	(†)	0. 0	·1147	0. 0	·01252	12. 0	58 ·0	59 ·3
5. 12	22. 10. 0	0. 38	·1138	3. 8:	·00985	21. 40	54 ·0	57 ·0
7. 21	10. 0		***	5. 38	·00525			
8. 6	2. 30	3. 45	·1160	8. 30	·00575			
8. 47	6. 35	4. 20	·1162	11. 30	·00510			
9. 48	8. 20	4. 46	·1150	16. 15:	·00771			
11. 28	7. 40	5. 0	·1158	21. 45	·01285			
11. 55	7. 15	5. 36	·1149	23. 57	·01252			
13. 24:	2. 0	6. 54	·1158					
14. 36	7. 0	7. 23	·1156					
17. 8	7. 10	8. 0	·1146					
		8. 32	·1154					
20. 2	5. 15	8. 57	·1149					
20. 52	8. 10		***					
	***	10. 5	·1154					
21. 42	6. 0	11. 35	·1148					
22. 13	10. 0	12. 0	·1141					
22. 38	10. 10	12. 10	·1146					
23. 13	14. 10	13. 25	·1166					
23. 47	15. 20	14. 50	·1140					
		17. 0	·1142					
		17. 10	·1147					
		18. 45	·1143					
		19. 30	·1146					
		19. 55	·1136					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Sept. 25. At 5h it was found that a spider had affixed its thread to one end of the Magnet: it is probable that this disturbance originated on September 24d. 21h.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Sept.25 h m		h m		h m	°	°
		19. 59	·1142					
		20. 30	·1126					
		21. 8	·1122					
		21. 23	·1126					
		21. 34	·1120					
		21. 45	·1132					
		22. 45	·1108					
		23. 0	·1109					
		23. 10	·1104					
		23. 40	·1111					
		23. 54	·1116					
Sept.26		Sept.26		Sept.26		Sept.26		
1. 32	22. 19. 0	0. 15	·1119	0. 0	·01243	1. 40	56 ·0	60 ·0
2. 13	18. 5	0. 30	·1124	3. 5:	·00995	3. 40	58 ·5	60 ·0
3. 8	14. 0	2. 50	·1120	5. 15	·00540	9. 40	59 ·0	60 ·0
3. 42	14. 25	4. 8	·1128	7. 35	{ ·00560	21. 40	52 ·0	54 ·0
4. 23	12. 30	4. 35	·1133		{ ·00975			
4. 47	13. 0	5. 16	·1128	9. 30	·00864			
5. 33	10. 40	5. 55	·1136	14. 0	·01050			
6. 8	10. 45		***	16. 30	·01341			
6. 46	11. 40	11. 55	·1126	23. 59	·01230			
7. 5	10. 55	13. 17	·1124					
10. 44	12. 50	13. 25	·1128					
17. 36	12. 0	13. 30	·1123					
17. 48	14. 0	16. 56	·1118					
17. 53	13. 0	17. 40	·1124					
18. 13	14. 45	17. 55	·1118					
	***	18. 15	·1124					
19. 5	10. 20		***					
19. 25	11. 0	21. 53	·1109					
19. 32	13. 35	22. 0	·1120					
	***	22. 16	·1112					
20. 5	9. 55	23. 59	·1116					
	***							
21. 48	10. 35							
21. 58	8. 30							
22. 6	11. 30							
22. 17	11. 10							
23. 59	15. 25							
Sept.27		Sept.27		Sept.27		Sept.27		
0. 20	22. 15. 45	3. 47	·1128	0. 5	·01220	1. 40	54 ·5	57 ·0
0. 43	14. 15	4. 30	·1130	3. 0:	·00920	3. 40	60 ·5	62 ·3
2. 35	13. 55		***	4. 40	·00556	9. 40	61 ·5	62 ·3
2. 46	12. 10	4. 55	·1122	10. 14	{ ·00600	21. 40	60 ·5	62 ·0
4. 40	11. 10	5. 32	·1132		{ ·00780			
6. 1	8. 35	6. 9	·1124	10. 45	·00780			
8. 5	10. 0	9. 10	·1130	12. 15	·00540			
9. 21	10. 30		***		***			
10. 23	7. 25	10. 15	·1123	13. 10	·00545			
10. 43	9. 20	10. 20	·1114		***			
11. 3	1. 45	10. 58	·1148	13. 50	·00446			
11. 10	2. 15	11. 45	·1101	14. 35	·00475			
11. 35	3. 5	12. 0	·1104	15. 23	·00220			
11. 46	22. 1. 30	12. 19	·1078	15. 25	·00249			
12. 1	21. 53. 30		***	15. 28	·00220			
12. 8	52. 10	12. 53	·1094	16. 0:	·00460			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept.27 h m	° ′ ″	Sept.27 h m		Sept.27 h m		h m	°	°
12. 18	21. 53. 20	13. 1	·1088	21. 45:	·00766			
12. 28	51. 40	13. 16	·1095	23. 59	·00660			
13. 13	54. 0	13. 30	·1088					
13. 23	59. 45	15. 0	·1048					
13. 35	56. 50		***					
13. 44	57. 20	15. 58	·1110					
13. 55	55. 0	16. 5	·1108					
14. 31	21. 56. 10		***					
14. 51	22. 4. 35	16. 30	·1124					
14. 58	3. 20	17. 8	·1101					
15. 12	11. 45	17. 50	·1096					
15. 33	22. 0. 40	18. 0	·1091					
	***		***					
15. 55	21. 56. 45	18. 50	·1101					
	***	19. 0	·1096					
16. 36	21. 55. 40	19. 8	·1105					
	***	19. 29	·1084					
17. 22	22. 1. 30		***					
17. 46	9. 50	19. 53	·1088					
18. 36	11. 30	20. 10	·1082					
19. 15	11. 0	20. 20	·1067					
19. 35	12. 0	20. 35	·1068					
19. 53	11. 30	20. 50	·1052					
20. 16	14. 20		***					
	***	21. 3	·1049					
21. 6	13. 30	21. 15	·1058					
	***		***					
21. 18	17. 0	22. 30	·1064					
	***	22. 40	·1058					
22. 0	20. 0		***					
22. 55	20. 35	23. 20	·1070					
23. 29	23. 30	23. 45	·1068					
23. 48	22. 0	23. 59	·1073					
Sept.28		Sept.28		Sept.28		Sept.28		
0. 16	22. 23. 0	0. 30	·1087	0. 24	{ ·00625	1. 40	63 ·0	65 ·0
1. 18	22. 30	0. 40	·1079		{ ·00740	3. 40	65 ·0	66 ·3
	(†)	0. 47	·1083	1. 0	{ ·00720	9. 40	66 ·0	67 ·0
1. 40	22. 7*	0. 53	·1077		{ ·00798	21. 40	57 ·6	60 ·0
	(†)	1. 10	·1086		***			
3. 40	14. 50*	1. 29	·1058	3. 15	·00902			
	(†)	1. 43	·1068		(†)			
9. 41	11. 20		***	9. 45	·00979			
13. 21	11. 10	2. 0	·1066	19. 0	·01020			
13. 48	10. 0	2. 9	·1083	22. 8	·01160			
14. 24	11. 0	2. 24	·1106					
14. 50	14. 20	2. 30	·1117					
15. 51	9. 0	2. 45	·1109					
16. 46	8. 0	2. 50	·1112					
17. 5	10. 30	3. 8	·1104					
17. 53	14. 0		(†)					
18. 28	13. 10	9. 41	·1124					
19. 3	9. 35	16. 10	·1126					
22. 12	9. 40	16. 45	·1124					
		17. 15	·1110					
		18. 16:	·1128					
		18. 34	·1123					
		18. 50	·1126					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
h m	° ′ ″	Sept.28 h m		h m		h m	°	°
		19. 44	·1112					
		20. 0	·1118					
		20. 30	·1108					
		21. 10	·1110					
		21. 20	·1104 ***					
		22. 10	·1109 (†)					
Sept.29		Sept.29		Sept.29		Sept.29		
0. 32	22. 13. 45	0. 30	·1116	1. 17	·01160	1. 40	59 ·0	63 ·0
2. 27	14. 35	1. 10	·1122	4. 3	·01178	3. 40	63 ·0	64 ·4
2. 48	13. 10	2. 15	·1126		·01513	9. 40	63 ·2	63 ·5
6. 14	9. 40 ***	3. 55	·1118	6. 27	·01517	21. 40	58 ·5	60 ·0
		5. 30	·1114 ***	9. 0:	·01580			
8. 38	7. 55			11. 38	·01538			
10. 8	10. 0	6. 17	·1120	23. 30	·01475			
10. 22	5. 30	6. 25	·1116	23. 59	·01460			
10. 40	9. 0	6. 55	·1119					
10. 55	8. 45	7. 32	·1115					
11. 13	10. 45	8. 30	·1123					
11. 36:	11. 0	8. 44	·1118 ***					
12. 5:	10. 10							
12. 29	9. 20	10. 15	·1120					
13. 15	9. 40	10. 34	·1142					
14. 14	11. 30	10. 53	·1124					
16. 18	10. 0	11. 4	·1123					
17. 30:	13. 30	11. 14	·1134					
18. 14	10. 5	11. 55	·1122 ***					
21. 5	10. 35							
21. 49	9. 30	14. 35	·1118					
23. 0	12. 30	15. 50	·1120 ***					
23. 14	12. 10							
23. 59	15. 0	18. 45	·1121					
		19. 8	·1118					
		19. 55	·1122					
		20. 45	·1108 ***					
		22. 13	·1104 ***					
		22. 58	·1159					
		23. 14	·1094					
		23. 50	·1100					
Sept.30		Sept.30		Sept.30		Sept.30		
0. 24	22. 14. 35	0. 8	·1110 ***	1. 0	·01405	1. 40	60 ·0	62 ·5
3. 32	13. 30			8. 0:	·00840	3. 40	63 ·0	65 ·0
5. 17	10. 10	0. 50	·1113	13. 23	·01190	9. 40	61 ·0	62 ·5
6. 28	11. 5	1. 0	·1112 ***	13. 45:	·01190	21. 40	56 ·0	59 ·0
7. 28	10. 50			15. 27	·01418			
8. 27	11. 25	3. 45	·1124		·01387			
8. 46	9. 0	4. 32	·1132	23. 59	·01382			
9. 13	22. 8. 25	5. 16	·1132					
9. 44	21. 57. 0	5. 54	·1140 ***					
10. 15	22. 6. 45							
10. 22	6. 30	8. 20	·1137 ***					
10. 37	10. 30							
11. 7:	8. 10	10. 16	·1120 ***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
Sept.30 h m	° ′ ″	Sept.30 h m		h m		h m	°	°
12. 13	22. 11. 25	11. 0	·1132					
12. 35	9. 50	11. 30	·1124					
13. 13	11. 45	13. 5	·1122					
13. 32	16. 35	13. 30	·1135					
13. 58	12. 0	14. 10	·1119					
15. 54	8. 10	14. 25	·1124 ***					
16. 25	9. 45							
16. 41	8. 55	16. 15	·1116					
17. 18	9. 30	16. 57	·1121					
19. 13	8. 45	18. 34	·1118					
20. 17	12. 10	19. 2	·1120					
20. 33	11. 0	19. 38	·1107 ***					
20. 55	12. 0							
21. 30	11. 20	22. 13	·1102 ***					
23. 59	19. 0							
		23. 10	·1112 ***					
		23. 59	·1114					
Oct. 1		Oct. 1		Oct. 1		Oct. 1		
0. 7	22. 19. 0	0. 0	·1114	0. 10	·01385	1. 40	57 ·0	58 ·0
0. 43	18. 25	0. 34:	·1116	2. 55	·01330	3. 40	58 ·0	59 ·0
1. 50	20. 45	1. 44	·1134		(†)	9. 40	58 ·5	54 ·5
2. 24	18. 50	2. 8	·1130	9. 45	·00773	23. 0	53 ·0	55 ·0
2. 55	20. 20 (†)	2. 49	·1136 (†)	12. 45:	·00928			
3. 40	18. 34* (†)	9. 45	·1147	16. 28	·01360 ·01328			
9. 47	11. 0	12. 0	·1145	21. 45	·01335			
11. 28	9. 35	13. 15	·1148	23. 23	·01312			
11. 43	11. 10	14. 7	·1142					
12. 0	10. 30	16. 5	·1142					
12. 23:	12. 25	16. 50	·1146					
12. 55	9. 25	17. 30	·1142					
13. 43	8. 50	18. 53	·1142					
15. 16	10. 55	22. 20	·1127					
16. 1	10. 50	23. 20	·1129					
16. 26	12. 0	23. 59	·1130					
17. 17	10. 45							
19. 0	10. 35							
21. 3	8. 0							
21. 53	8. 50							
23. 20	12. 20							
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
0. 0	22. 13. 50	0. 0	·1130	0. 20	·01320	10. 40	54 ·0	55 ·0
0. 57	15. 5	2. 0	·1150	2. 15:	·01250	21. 40	50 ·0	52 ·0
1. 35	14. 30	2. 17	·1148	7. 15	·00695			
2. 0	15. 30	3. 35	·1153		(†)			
2. 23	13. 45 (†)	3. 50	·1148	10. 45	·00670			
11. 5	9. 30	4. 40	·1152 (†)	17. 48	·01293 ·01260			
14. 34	10. 35	11. 0	·1138	21. 55	·01300			
15. 22	10. 0	12. 17	·1134	22. 10	·01200			
15. 47	11. 15	15. 52	·1135	23. 59:	·01130			
16. 24	10. 30	18. 45	·1142					
17. 8	11. 10	22. 25	·1116					
18. 17	9. 35	23. 15	·1122					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 2		Oct. 2						
h m	° ′ ″	h m		h m		h m	°	°
19. 10	22. 10. 5	23. 59	·1125					
21. 32	7. 45							
23. 59	13. 30							
Oct. 3		Oct. 3		Oct. 3		Oct. 3		
0. 8	22. 13. 45	0. 25	·1126	1. 47	·00958	1. 40	50 ·0	52 ·5
1. 0	15. 20	1. 4	·1134	3. 53	·00555	3. 40	55 ·0	55 ·0
	(†)		(†)	4. 10	·00580	9. 45	54 ·0	56 ·0
4. 0	11. 50	4. 15	·1150	9. 40	·00525	21. 40	50 ·0	52 ·0
5. 18	9. 15	7. 35	·1160	11. 45:	·00605			
7. 18	8. 15	9. 4	·1155	19. 43	·01390			
8. 46	11. 0	9. 20	·1167	23. 15	·01360			
9. 15	10. 0	9. 33	·1158	23. 59	·01333			
9. 23	10. 20	10. 0	·1160					
9. 52	5. 30	12. 45	·1152					
10. 58	9. 0	13. 30	·1150					
16. 14	11. 0	15. 53	·1152					
18. 20	10. 0	18. 25	·1158					
20. 22	7. 45	22. 50	·1138					
22. 21	9. 10		***					
23. 59	13. 0	23. 59	·1142					
Oct. 4		Oct. 4		Oct. 4		Oct. 4		
0. 7	22. 13. 25	0. 30	·1146	1. 15	·01215	1. 40	53 ·5	55 ·0
1. 7	14. 25	1. 30	·1152	5. 10	·00610	3. 40	55 ·0	57 ·0
3. 48	13. 0	3. 40	·1162	6. 45:	·00620	9. 40	57 ·5	58 ·0
4. 55	11. 10	4. 45	·1156	10. 8:	·00665	21. 40	56 ·5	57 ·0
6. 47	12. 40	6. 45	·1159	12. 25	·00620			
10. 5	11. 15	7. 0	·1154	16. 0:	·00614			
14. 31	12. 20	7. 10	·1164	20. 0:	·00655			
21. 0	13. 0	7. 30	·1156	22. 35	·00620			
		8. 30	·1157	23. 59	·00626			
			***					
		9. 34	·1149					
			***					
		10. 55	·1158					
		11. 46	·1154					
		12. 15	·1162					
		13. 10	·1156					
		13. 53	·1160					
		14. 47	·1150					
		15. 45	·1156					
		19. 0	·1160					
		20. 7	·1150					
		21. 30	·1154					
		22. 35	·1144					
		23. 59	·1138					
		Oct. 5		Oct. 5		Oct. 5		
		0. 0	·1138	1. 0	·00780	1. 40	58 ·0	59 ·0
		0. 20	·1136	2. 30:	·00770	3. 40	59 ·0	61 ·0
		3. 0	·1144	4. 30:	·00800	9. 40	59 ·0	61 ·5
		3. 10	·1149	9. 0:	·00760	21. 40	54 ·0	56 ·0
		3. 38	·1144	15. 30:	·01055			
		4. 4	·1150	19. 30	·01520			
		5. 46	·1151	23. 30	·01452			
		6. 15	·1156					
		10. 3	·1158					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Oct. 5 h m		h m		h m	°	°
		12. 15	·1165					
		15. 20	·1163					
		19. 10	·1170					
		21. 40	·1158					
		22. 15	·1149					
		23. 35	·1147					
Oct. 6		Oct. 6		Oct. 6		Oct. 6		
0. 0	22. 10. 0	0. 30	·1146	0. 0	·01452	1. 40	54 ·0	57 ·0
0. 50	13. 5	1. 3	·1144	1. 45	·01455	3. 40	56 ·0	57 ·5
1. 11	12. 40	2. 0	·1153	8. 30:	·01062	9. 40	57 ·0	57 ·6
2. 0	14. 0	4. 40	·1160	13. 30:	·01040	21. 40	53 ·5	55 ·0
3. 8	12. 40	5. 23	·1156	20. 45:	·01120			
5. 14	8. 0	8. 0	·1160	23. 59	·01060			
8. 10	5. 40	18. 30	·1166					
8. 43	6. 10	22. 5	·1154					
12. 25	5. 30	23. 40	·1140					
15. 0	6. 0	23. 59	·1142					
15. 43	5. 0							
16. 21	5. 50							
18. 17	4. 30							
19. 23	6. 0							
20. 53	3. 20							
21. 54	3. 30							
23. 59	8. 30							
Oct. 7		Oct. 7		Oct. 7		Oct. 7		
0. 7	22. 9. 50	0. 0	·1142	0. 15	·01045	1. 40	56 ·5	57 ·5
1. 17:	13. 30	1. 8	·1148	2. 14:	·00930	3. 40	58 ·5	60 ·0
1. 53	12. 10	1. 53	·1143	3. 27	·00755	9. 40	60 ·5	61 ·5
2. 15	13. 0	2. 44	·1148	3. 50:	·00784	21. 40	57 ·5	59 ·5
3. 30	11. 25	11. 30	·1154	12. 15	·00770			
5. 38	7. 0	19. 0	·1160	16. 0:	·00828			
11. 17	5. 10	23. 0	·1137	20. 45:	·00960			
18. 47	5. 30	23. 59	·1136	23. 15	·00930			
21. 3	2. 0			23. 59	·00905			
22. 22	3. 0							
23. 59	8. 30							
Oct. 8		Oct. 8		Oct. 8		Oct. 8		
0. 25	22. 9. 35	0. 0	·1136	0. 15	·00890	1. 40	59 ·8	61 ·5
2. 31	11. 30	3. 50	·1142	2. 20	·00760	3. 40	62 ·0	62 ·5
5. 50	7. 0	7. 40	·1152		·00790	9. 40	62 ·0	62 ·5
8. 32	6. 40	7. 57	·1148	4. 15:	·00865	23. 10	55 ·5	56 ·5
9. 17	8. 10	8. 40	·1152	6. 45:	·00868			
10. 30	6. 5	9. 8	·1148	7. 8:	·00934			
11. 57	7. 0	9. 35	·1154	8. 30:	·00930			
12. 24:	5. 0	10. 0	·1150	14. 15	·01190			
12. 47	7. 25	11. 30	·1154	17. 53	·01570			
13. 12	4. 50	12. 40	·1154	23. 12	·01480			
17. 40	6. 10	12. 53	·1150					
19. 30	5. 50	20. 20	·1162					
20. 38	4. 0	23. 15	·1150					
21. 58	4. 0	23. 38	·1150					
23. 59	10. 15	23. 57	·1146					
Oct. 9		Oct. 9		Oct. 9		Oct. 9		
0. 15	22. 11. 10	0. 0	·1148	0. 15	·01475	10. 40	60 ·0	60 ·3

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Oct. 5. The Declination Magnet was at times resting on the copper damper, and consequently the observations are not used.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 9		Oct. 9		Oct. 9		Oct. 9		
h m	° ′ ″	h m		h m		h m	′	′
1. 30	22. 14. 0	0. 38	·1150	3. 45:	·01250	21. 40	64 ·0	64 ·0
5. 12	6. 40	2. 20	·1142	6. 15	·00803			
7. 45	5. 50		***	6. 30:	·00820			
9. 51	7. 0	5. 40	·1148	11. 30	·00790			
	***	5. 47	·1154	14. 45:	·00963			
10. 52	2. 50	5. 52	·1148	19. 0	·01495			
	***		***	19. 30:	·01470			
11. 28	22. 3. 40	7. 40	·1150	23. 59	·01460			
	***	7. 50	·1158					
13. 6	21. 59. 0	8. 6	·1148					
	***	8. 25	·1150					
14. 24	22. 7. 5	8. 30	·1144					
14. 45	5. 0	8. 34	·1149					
15. 48	5. 25	9. 25	·1146					
16. 50	4. 0		***					
18. 8	6. 0	9. 40	·1156					
20. 1	6. 0	9. 49	·1146					
20. 47	3. 35	10. 0	·1161					
22. 8	4. 40	10. 23	·1150					
23. 59	8. 0	10. 30	·1150					
		10. 45	·1156					
		10. 55	·1154					
		11. 5	·1158					
		11. 15	·1154					
		12. 15	·1155					
		12. 20	·1160					
		13. 13	·1146					
			***					
		14. 44	·1158					
		15. 14	·1154					
		15. 45	·1162					
		16. 45	·1164					
		17. 40	·1156					
		20. 10	·1163					
		23. 15	·1148					
		23. 59	·1146					
Oct. 10		Oct. 10		Oct. 10		Oct. 10		
0. 14	22. 9. 30	0. 0	·1146	1. 0	·01440	1. 40	58 ·5	61 ·0
1. 7	11. 30	0. 45	·1150	2. 45:	·01260	3. 40	59 ·0	61 ·0
1. 40	10. 0	1. 38	·1142	3. 53	·00800	9. 40	62 ·0	62 ·5
3. 1	11. 5	1. 52	·1146	6. 38:	·00870	21. 40	54 ·0	56 ·0
5. 2	7. 30	2. 40	·1141	9. 25:	·00816			
5. 28	3. 30	3. 0	·1147	12. 20	·00825			
5. 41	4. 35		***		·01170			
6. 23	0. 20	3. 45	·1140	15. 30:	·01163			
6. 44	4. 30	5. 0	·1143	21. 5:	·01370			
7. 49	22. 5. 10	5. 23	·1136	23. 15:	·01398			
8. 13	21. 54. 50	5. 47	·1145	23. 59	·01390			
8. 28	57. 30		***					
8. 43	21. 55. 25	6. 15	·1135					
9. 18	22. 0. 20		***					
9. 29	21. 59. 30	7. 15	·1147					
10. 0	22. 4. 0	8. 5	·1137					
10. 33	5. 0	8. 23	·1149					
11. 25	4. 20	8. 37	·1138					
12. 22	5. 40	8. 57:	·1144					
13. 6	5. 0	9. 23	·1134					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 10		Oct. 10						
h m	° ′ ″	h m		h m		h m	′	′
14. 14	22. 5. 45	10. 0	·1142					
14. 28	8. 30	12. 35	·1147					
15. 35	4. 0	14. 33	·1150					
15. 53	5. 0	14. 50	·1156					
18. 40	3. 30	15. 55	·1150					
20. 53	4. 10	18. 20	·1154					
22. 27	7. 40	19. 30	·1152					
22. 43	10. 0	20. 35	·1140					
23. 30	11. 0	22. 17	·1132					
23. 59	9. 0	23. 59	·1150					
Oct. 11		Oct. 11		Oct. 11		Oct. 11		
0. 17	22. 8. 10	0. 0	·1130	0. 38	·01365	1. 40	58 ·5	61 ·0
0. 31	8. 15	0. 35	·1134	3. 40:	·01082	3. 40	62 ·0	63 ·5
1. 52	11. 0	1. 50	·1135	4. 15	·01060	9. 40	63 ·0	63 ·0
	***	2. 13	·1128	4. 28	·01234	21. 40	58 ·5	59 ·5
2. 49	9. 50	2. 20	·1131	5. 35	·01160			
2. 51	11. 5	2. 35	·1125	14. 45	·01449			
5. 30	7. 0	2. 50	·1133	17. 40	·01654			
6. 51	6. 25	3. 55	·1130	19. 15:	·01640			
6. 56	6. 20		***	20. 35	·01670			
8. 0	6. 55	5. 0	·1140	22. 8	·01428			
9. 53	6. 20	5. 15	·1132		·01685			
10. 13	5. 10		***	23. 59	·01490			
13. 30	7. 0	7. 20	·1140					
13. 45	8. 50	10. 0	·1146					
14. 21	9. 0	13. 20	·1152					
14. 36	7. 0	13. 53:	·1148					
15. 26	6. 0	14. 30	·1156					
15. 35	6. 45	15. 20	·1152					
	***	17. 30	·1158					
17. 50	6. 0	18. 30	·1153					
18. 47	9. 30	19. 15	·1162					
19. 53	4. 30	23. 0	·1136					
20. 21	4. 50	23. 59	·1136					
20. 50	2. 50							
21. 7	3. 45							
22. 15	3. 0							
23. 59	9. 0							
Oct. 12		Oct. 12		Oct. 12		Oct. 12		
0. 33	22. 9. 15	0. 0	·1136	1. 0	·01480	1. 40	60 ·0	61 ·0
1. 51	11. 0	0. 30	·1135	3. 45:	·01285	3. 40	61 ·0	63 ·5
3. 53	11. 0	0. 50	·1133	8. 15:	·00883	9. 40	61 ·0	63 ·0
5. 13	8. 15	1. 43	·1142	11. 15	·00856	21. 40	58 ·5	59 ·5
6. 50	7. 10	11. 30	·1157	15. 5:	·00960			
11. 35	6. 30	12. 55	·1153	23. 0:	·01360			
13. 42	5. 20	14. 30	·1154	23. 59	·01370			
13. 52	6. 10	14. 58	·1158					
14. 7	4. 15	15. 10	·1152					
14. 25	5. 5	16. 45	·1154					
15. 14	2. 0	17. 35	·1148					
15. 53	4. 20	18. 30	·1158					
16. 35	3. 10	19. 45	·1153					
17. 14	4. 25	20. 5	·1160					
17. 55	9. 35	23. 10	·1139					
18. 50	8. 0	23. 59	·1137					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 12								
h m	° ′ ″	h m		h m		h m	°	°
20. 0	22. 3. 0							
21. 33	3. 10							
23. 59	10. 30							
Oct. 13		Oct. 13		Oct. 13		Oct. 13		
0. 26	22. 11. 35	0. 0	·1137	0. 30	·01370	1. 40	59 ·0	61 ·5
2. 28	12. 5	0. 57	·1140	2. 15:	·01284	3. 40	61 ·0	62 ·5
5. 28	7. 50	2. 30	·1138	4. 10:	·01027	9. 40	62 ·0	62 ·7
11. 9	7. 0	3. 25	·1146	5. 48	{ ·00850	21. 40	58 ·5	59 ·0
11. 25	6. 5	3. 53	·1142		{ ·00873			
12. 17	7. 25	7. 30	·1150	9. 55	·00858			
17. 32	7. 25	18. 45	·1159	14. 0:	·00960			
17. 55	7. 0	19. 10	·1152	21. 5:	·01320			
17. 58	8. 30	20. 10	·1158	23. 50	·01415			
18. 30	7. 0		***					
18. 58	8. 30	21. 20	·1154					
	***	22. 35	·1136					
20. 46	3. 30	23. 5	·1142					
	***	23. 30	·1138					
21. 28	6. 15	23. 53	·1162					
22. 22	7. 15							
23. 13	11. 20							
23. 33	11. 30							
23. 54	17. 30							
Oct. 14		Oct. 14		Oct. 14		Oct. 14		
0. 13	22. 13. 0	0. 15	·1142	1. 0	·01380	1. 40	60 ·5	62 ·0
0. 32	17. 30	0. 25	·1152	1. 45:	·01320	3. 40	62 ·0	64 ·0
0. 47	11. 30	0. 35	·1152	3. 45	·00930	9. 40	63 ·5	64 ·8
1. 19	13. 0	0. 50	·1128	5. 35	{ ·00935	21. 40	57 ·8	58 ·0
	***	1. 15	·1138		{ ·01263			
3. 11	12. 0		***	6. 40	·01270			
4. 28	10. 0	2. 34	·1138	7. 20	·01320			
4. 38	11. 40	2. 45	·1132	8. 15	·01320			
	***	3. 0	·1137	8. 45	·01360			
5. 28	9. 30	4. 25	·1138	10. 3	·01285			
	***	4. 35	·1148	11. 55	·01365			
5. 46	10. 30	5. 4	·1137	15. 25	·01680			
6. 1	7. 10	5. 23	·1144	20. 15:	·01645			
6. 10	8. 15	5. 46	·1121	22. 30:	·01600			
6. 20	7. 25	6. 5	·1130	23. 59	·01621			
6. 32	15. 0	6. 15	·1124					
6. 40	15. 0	6. 28	·1134					
7. 13	5. 25	6. 53	·1103					
7. 17	6. 10	7. 23	·1116					
7. 23	5. 0	7. 34	·1114					
7. 25	6. 25	7. 58	·1128					
7. 31	5. 0	8. 8	·1124					
7. 59	3. 30	8. 33	·1124					
8. 15	22. 4. 40	8. 45	·1134					
8. 43	21. 59. 20	9. 3	·1120					
8. 55	22. 2. 35	9. 30	·1155					
9. 28	21. 43. 0	10. 0	·1120					
9. 55	57. 0	10. 13	·1125					
10. 10	52. 10	10. 40	·1120					
10. 25	55. 30	10. 58	·1126					
10. 36	21. 55. 40	11. 8	·1124					
11. 18	22. 3. 55	11. 38	·1136					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 14		Oct. 14				Oct. 14		
h m	° ′ ″	h m		h m		h m	°	°
11. 47	22. 5. 35	12. 8	·1132					
11. 58	4. 15	12. 40	·1136					
12. 33	7. 0		***					
12. 52	5. 45	14. 35	·1144					
13. 20	7. 15	15. 35	·1138					
13. 48	5. 30		***					
15. 55	7. 0	17. 33	·1137					
16. 5	5. 10	17. 57	·1146					
16. 33	6. 30	23. 59	·1128					
16. 44	5. 0							
17. 32	7. 10							
17. 38	6. 0							
19. 13	6. 0							
19. 20	4. 40							
19. 32	6. 0							
20. 3	5. 0							
20. 15	3. 0							
	***							
23. 3	6. 0							
23. 59	10. 30							
Oct. 15		Oct. 15		Oct. 15		Oct. 15		
0. 20	22. 11. 30	0. 5	·1128	0. 50	·01588	1. 40	58 ·5	60 ·7
0. 48	11. 10	2. 45	·1138	1. 45:	·01510	3. 40	62 ·0	64 ·0
	***	3. 15	·1132	5. 30:	·01040	1. 40	59 ·7	61 ·0
2. 43	12. 30	3. 35	·1136	7. 30:	·00980	23. 10	56 ·0	56 ·5
2. 45	11. 50	4. 0	·1132	19. 37	·01560			
3. 28	10. 40	4. 35	·1140	23. 45:	·01515			
4. 0	7. 10	4. 55	·1136					
6. 40	7. 30		***					
7. 2	5. 35	5. 44	·1144					
7. 9	22. 6. 5	6. 3	·1137					
7. 28	21. 58. 15	6. 40	·1141					
7. 42	21. 58. 0	7. 17	·1123					
8. 19	22. 4. 40	7. 50	·1148					
8. 25	3. 0	8. 37	·1138					
8. 31	4. 0	9. 8	·1142					
8. 32	3. 0	9. 28	·1150					
8. 38	5. 0	10. 34	·1150					
9. 20	6. 0	11. 14	·1170					
10. 30	4. 0	12. 15	·1153					
10. 55	6. 30	13. 10	·1150					
11. 5	4. 10	13. 50	·1150					
11. 15	7. 0	13. 57	·1154					
11. 58	6. 0	14. 10	·1148					
12. 22	3. 40	14. 45	·1154					
13. 46	5. 20	15. 20	·1152					
13. 58	7. 0	17. 30	·1162					
14. 17	5. 25		***					
16. 17	6. 0	18. 25	·1156					
16. 57	5. 30		***					
17. 25	9. 40	20. 35	·1158					
18. 16	8. 0	21. 28	·1146					
18. 23	6. 30	23. 0	·1144					
19. 8	5. 15	23. 28	·1150					
20. 20	4. 0	23. 50	·1144					
	***	23. 59	·1148					
21. 37	4. 0							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 15.								
h m	° ′ ″	h m		h m		h m	°	°
23. 17	22. 9. 20							
23. 28	12. 15							
23. 52	9. 35							
Oct. 16		Oct. 16		Oct. 16		Oct. 16		
0. 46	22. 12. 10	0. 5	·1145	0. 25	·01530	9. 40	55 ·0	56 ·0
1. 58	11. 30	0. 20	·1148	2. 0:	·01514	21. 40	49 ·0	50 ·0
4. 56	7. 45	1. 17	·1151	3. 45:	·01550			
7. 17	7. 20	4. 5	·1156	6. 0:	·01534			
8. 33	8. 30	4. 25	·1152	8. 34	·01585			
9. 39	5. 5	4. 40	·1156	9. 50	·01570			
9. 51	6. 5	4. 58	·1152	15. 5:	·01475			
10. 0	5. 0	6. 45	·1158	16. 0:	·01418			
	***	6. 55	·1163	17. 17:	·01414			
12. 16	5. 0	7. 10	·1158	18. 30:	·01400			
12. 26	7. 0	8. 0	·1163	21. 0:	·01450			
14. 1	7. 50	8. 50	·1160	23. 5:	·01376			
14. 36	4. 30	9. 14	·1149	23. 59	·01300			
15. 33	10. 0	9. 20	·1153					
15. 46	9. 15	10. 0	·1152					
16. 13	11. 0	10. 23	·1163					
16. 47	4. 30	10. 46	·1150					
19. 17	6. 5	10. 53	·1155					
	***	11. 20	·1154					
20. 33	4. 30	11. 50	·1164					
21. 10	5. 50	14. 3	·1164					
21. 48	4. 50		***					
23. 7	9. 40	15. 0	·1162					
23. 36	14. 15	15. 20	·1172					
23. 59	15. 30	15. 44	·1161					
		17. 10	·1168					
		17. 46	·1184					
		18. 50	·1168					
		21. 3	·1164					
		21. 40	·1152					
		23. 30	·1162					
		23. 50	·1156					
		23. 55	·1164					
Oct. 17		Oct. 17		Oct. 17		Oct. 17		
0. 26	22. 16. 40	0. 2	·1158	0. 10	·01280	1. 40	53 ·0	54 ·0
0. 41	17. 50		***	2. 45:	·01035	3. 40	56 ·0	57 ·0
	***	0. 40	·1160	4. 40	·00650	9. 40	57 ·8	58 ·0
1. 57	15. 50	1. 37	·1146	5. 0:	·00656	21. 40	50 ·8	53 ·2
2. 35	13. 30		***	8. 50	·00595			
2. 37	14. 20	2. 25	·1153	9. 5	·00605			
3. 5	11. 40	2. 38	·1166	9. 40:	·00520			
4. 47	8. 0	3. 0	·1152	13. 30:	·00574			
5. 28	8. 30		***	17. 30:	·00715			
6. 38	4. 0	6. 23	·1153	23. 59	·01155			
7. 3	7. 0	6. 37	·1144					
7. 32	6. 0	7. 5	·1156					
8. 5	7. 10	8. 50	·1156					
8. 17	22. 3. 5	9. 5	·1180					
8. 43	21. 58. 35	9. 13	·1174					
9. 5	22. 6. 0	9. 20	·1188					
9. 17	2. 30	9. 32	·1180					
9. 27	22. 4. 0	10. 40	·1155					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 17		Oct. 17						
h m	° ′ ″	h m		h m		h m	°	°
9. 38	21. 58. 45	16. 40	·1160					
9. 48	58. 15	18. 5	·1168					
10. 2	56. 10	19. 0	·1165					
10. 26	57. 0	19. 40	·1157					
10. 37	59. 45	19. 53	·1151					
11. 20	21. 57. 50	20. 5	·1159					
11. 41	22. 3. 50		***					
13. 7	7. 30	21. 32	·1157					
13. 30	6. 10	22. 20	·1146					
14. 46	7. 30	23. 17	·1152					
15. 25	6. 20	23. 59	·1150					
16. 0	7. 10							
17. 48	6. 35							
18. 56	8. 0							
	***							
21. 25	3. 0							
21. 58	7. 40							
22. 13	8. 0							
22. 30	5. 0							
23. 46	11. 0							
23. 59	10. 0							
Oct. 18		Oct. 18		Oct. 18		Oct. 18		
0. 13	22. 10. 45	0. 0	·1150	0. 45	·01160	1. 40	53 ·0	56 ·3
0. 45	12. 0		***	2. 17:	·01030	3. 40	54 ·5	56 ·6
0. 53	13. 55	1. 40	·1154	3. 10	·00800	9. 40	55 ·0	56 ·5
1. 40	14. 40	1. 50	·1140	3. 40	·00620	21. 40	50 ·0	52 ·8
1. 51	18. 0	2. 15	·1146	4. 30:	·00680			
2. 12	16. 10	2. 29	·1142	8. 10:	·00630			
2. 21	18. 0	3. 10	·1152	9. 45:	·00622			
	***	5. 4	·1150	13. 55:	·00830			
2. 57	9. 0	5. 17	·1156	17. 55:	·01250			
3. 22	10. 35	5. 40	·1150	20. 33	·01440			
5. 0	6. 0	10. 16	·1158	23. 59	·01370			
6. 46	5. 10	10. 45	·1154					
8. 31	3. 20	11. 17	·1162					
8. 57	22. 4. 30	11. 40	·1160					
9. 57	21. 59. 20	12. 7	·1170					
10. 36	22. 4. 0	12. 35	·1172					
11. 3	5. 0	13. 25	·1164					
11. 17	4. 0	18. 20	·1169					
11. 50	4. 50	21. 14	·1164					
12. 7	2. 15	22. 28	·1150					
13. 13	6. 15	23. 59	·1149					
14. 27	4. 50							
15. 57	6. 30							
18. 45	6. 5							
21. 2	3. 30							
22. 13	3. 40							
23. 43	7. 30							
Oct. 19		Oct. 19		Oct. 19		Oct. 19		
1. 15	22. 11. 40	0. 0	·1149	0. 25	·01374	1. 40	54 ·0	55 ·0
2. 31	11. 30	5. 8	·1165	2. 25:	·01264	3. 40	54 ·5	56 ·0
4. 46	6. 30	6. 40	·1163	5. 0	·01005	9. 40	56 ·5	58 ·0
6. 22	7. 55	7. 5	·1167	8. 0	·00668	21. 40	54 ·5	57 ·4
7. 46	6. 25	9. 10	·1158	10. 50	·00669			
9. 19	6. 35	9. 58	·1162	16. 30:	·00650			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 19		Oct. 19		Oct. 19				
h m	° ′ ″	h m		h m		h m	°	°
10. 0	22. 5. 25	10. 23	·1157	21. 0:	·00693			
10. 21	6. 0	11. 0	·1166	22. 45	{·00654			
10. 37	2. 0	11. 45	·1157		{·00735			
11. 31	6. 35	12. 15	·1157	23. 59	·00712			
12. 10	5. 0	16. 55	·1160					
	***	17. 35	·1153					
15. 0	8. 5	20. 58	·1162					
17. 43	7. 40	23. 59	·1138					
18. 42	7. 20							
20. 51	6. 20							
22. 2	5. 0							
23. 58	12. 30							
Oct. 20		Oct. 20		Oct. 20		Oct. 20		
0. 8	22. 13. 30	0. 0	·1138	0. 13	{·01195	1. 40	55 ·5	57 ·6
2. 22	14. 0	3. 45	·1136		{·01030	3. 40	56 ·5	60 ·5
3. 19	12. 0	5. 30	·1148	1. 50:	·00932	9. 40	56 ·0	58 ·0
4. 50	10. 35	6. 0	·1142	2. 45:	·00868	21. 40	51 ·0	53 ·0
5. 8	9. 0		***	3. 44	{·00830			
5. 35	8. 50	8. 5	·1156		{·00865			
6. 8	4. 10		***	7. 40:	·00859			
6. 32	6. 40	9. 10	·1152	8. 8:	·00990			
6. 46	6. 0	10. 0	·1157	11. 5:	·01120			
7. 13	8. 0	10. 44	·1172	13. 22	{·01370			
8. 14	9. 5	11. 5	·1164		{·01290			
	***	15. 10	·1166	15. 30:	·01320			
9. 21	7. 30	15. 58	·1173	17. 0:	·01244			
9. 46	8. 30	16. 40	·1188	22. 15:	·01285			
10. 6	6. 20	17. 45	·1178	23. 59	·01220			
10. 18	7. 15	20. 46	·1176					
10. 32	6. 0	22. 20	·1164					
10. 46	7. 5	22. 50	·1164					
11. 7	5. 0	23. 50	·1156					
11. 30	5. 0	23. 59	·1156					
12. 58	7. 50							
	***							
15. 7	7. 0							
15. 47:	12. 30							
17. 13	2. 30							
17. 42	5. 0							
21. 55	12. 0							
23. 13	12. 15							
23. 47	12. 30							
23. 59	13. 25							
Oct. 21		Oct. 21		Oct. 21		Oct. 21		
0. 12	22. 11. 35	0. 5	·1154	0. 5	·01190	1. 40	54 ·5	56 ·7
1. 0	11. 25	0. 40	·1152	1. 5:	·01120	3. 40	56 ·0	57 ·5
1. 22	13. 0	1. 14	·1162	4. 45	{·00720	9. 40	58 ·5	58 ·5
2. 1	13. 0	1. 46	·1159		{·00763	21. 40	58 ·5	59 ·0
2. 17	15. 0	2. 0	·1153	5. 0	·00760			
2. 52	13. 0	2. 15	·1156	5. 40:	·00800			
3. 8	13. 45	2. 35	·1152	7. 15:	·00770			
	***	3. 8	·1160	10. 40:	·00794			
4. 51	10. 0	3. 33	·1154	18. 50:	·00765			
5. 29	1. 0	4. 30	·1156	21. 45:	·00780			
6. 0	6. 15	5. 0	·1134	22. 45:	·00748			
7. 35	6. 0	5. 20	·1138	23. 59	·00775			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 21		Oct. 21						
h m	° ′ ″	h m		h m		h m	°	°
11. 37	22. 4. 30	5. 55	·1157					
11. 52	5. 30	7. 10	·1158					
12. 31	4. 50	8. 30	·1168					
13. 14	5. 50	9. 40	·1170					
18. 0	5. 45	11. 34	·1165					
21. 15	4. 0	11. 50	·1169					
	***	12. 10	·1166					
22. 47	6. 30	19. 23	·1160					
23. 32	9. 30		***					
23. 59	10. 0	23. 50	·1131					
Oct. 22		Oct. 22		Oct. 22		Oct. 22		
0. 23	22. 11. 40	0. 0	·1130	0. 45	·00876	1. 40	59 ·5	62 ·0
1. 36	12. 0	0. 45	·1130	1. 33	{·00885	3. 40		64 ·5
4. 42	5. 0		***		{·01030	9. 40	63 ·0	64 ·0
6. 33	4. 30	2. 30	·1127	2. 9:	·00970	22. 20	60 ·5	62 ·5
9. 8	5. 0	6. 5	·1144	8. 10	·00909			
13. 0	4. 35	6. 40	·1142	8. 25	·01120			
13. 52	3. 55	9. 30	·1150	13. 45:	·01201			
15. 24	4. 55	12. 40	·1150	17. 15:	·01360			
16. 5	3. 35	13. 0	·1160	21. 15:	·01474			
19. 20	4. 20	13. 45	·1154	22. 30	·01470			
21. 25	3. 10	15. 25	·1154					
22. 18	4. 30	15. 56	·1162					
22. 37	4. 50	19. 20	·1161					
23. 13	8. 0	22. 10	·1140					
23. 20	5. 0	22. 45	·1140					
23. 43	14. 0	22. 55	·1136					
23. 55	12. 10	23. 17	·1154					
		23. 30	·1154					
		23. 59	·1137					
Oct. 23		Oct. 23		Oct. 23		Oct. 23		
0. 13	22. 15. 0	0. 5	·1140	0. 15	·01460	9. 40	63 ·3	64 ·0
0. 24	14. 0	0. 45	·1134	1. 15:	·01434	21. 40	56 ·0	59 ·0
	***		***	2. 35	·01445			
1. 40	18. 0	1. 45	·1140	3. 20	·01330			
	***	2. 15	·1124	5. 38:	·01170			
1. 55	16. 50	2. 22	·1132	7. 0:	·01122			
	***	2. 43	·1118	8. 45:	·01026			
2. 25	21. 0	3. 28	·1147	9. 45	·01019			
2. 50	15. 40	3. 55	·1134	10. 0	·01035			
3. 8	15. 55	4. 14	·1144	17. 0:	·01140			
3. 25	14. 0	4. 45	·1138	20. 10:	·01322			
3. 40	14. 30	5. 30	·1135	21. 40:	·01380			
4. 2	12. 40	6. 25	·1131	23. 59	·01545			
4. 23	12. 30	6. 40	·1138					
5. 8	7. 30	6. 50	·1132					
5. 25	8. 30	7. 35	·1136					
6. 20	5. 50	8. 1	·1158					
6. 38	7. 0		***					
9. 17	22. 4. 40	8. 23	·1148					
9. 50	21. 54. 35	8. 30	·1153					
10. 2	58. 45	8. 58	·1142					
10. 17	21. 52. 0	9. 25	·1148					
10. 48	22. 0. 0	9. 44	·1134					
11. 21	1. 50	9. 55	·1142					
11. 33	1. 0	10. 3	·1135					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 23		Oct. 23						
h m	° ′ ″	h m		h m		h m	°	°
12. 8	22. 4. 0	10. 23	·1150					
12. 28	1. 30	10. 50	·1130					
14. 27	7. 0	11. 20	·1134					
14. 37	9. 0	12. 16	·1146					
16. 55	4. 10	12. 24	·1142					
17. 47	22. 7. 15	14. 40	·1142					
18. 29	21. 58. 30	16. 15	·1150					
	***	16. 32	·1156					
19. 28	22. 8. 0	17. 23	·1150					
19. 43	4. 10	18. 32	·1154					
21. 10	2. 0	18. 44	·1146					
21. 58	3. 30	19. 23	·1154					
23. 15	11. 0	20. 25	·1157					
23. 58	11. 20	22. 25	·1140					
		23. 0	·1142					
		23. 20	·1132					
		23. 59	·1135					
Oct. 24		Oct. 24		Oct. 24		Oct. 24		
0. 28	22. 17. 20	0. 8	·1136	1. 15	·01570	1. 40	59 ·0	62 ·8
0. 40	16. 0	0. 23	·1128	2. 50:	·01520	3. 40	61 ·0	64 ·0
1. 21	18. 50	0. 44	·1126	7. 0:	·01060	9. 40	61 ·7	63 ·6
1. 43	15. 0	1. 20	·1138	17. 30:	·00980	21. 40	58 ·0	60 ·0
	***	1. 40	·1135	22. 5:	·01280			
3. 1	15. 5	2. 20	·1144	23. 45	·01254			
3. 37	12. 30	2. 55	·1133					
6. 27	6. 0	3. 15	·1138					
7. 28	2. 0	4. 20	·1135					
8. 3	4. 50	5. 10	·1144					
11. 48	4. 35	6. 0	·1134					
13. 42	5. 45	6. 34	·1140					
14. 27	4. 0	7. 15	·1128					
14. 48	6. 0	7. 55	·1146					
16. 18	2. 0		***					
17. 15	3. 5	9. 30	·1156					
17. 27	4. 50	9. 45	·1150					
17. 35	2. 50		***					
20. 25	7. 30	13. 10	·1150					
20. 47	6. 30	14. 45	·1159					
20. 58	8. 0	16. 50	·1154					
21. 17	6. 0	18. 25	·1160					
21. 32	6. 40	20. 20	·1156					
22. 3	12. 20		***					
22. 43	6. 25	21. 50	·1127					
23. 15	9. 50	22. 14	·1142					
23. 41	8. 30	22. 53	·1146					
23. 59	10. 25	23. 40	·1138					
		23. 59	·1140					
Oct. 25		Oct. 25		Oct. 25		Oct. 25		
0. 28	22. 12. 10	0. 0	·1140	0. 0	·01248	1. 40	60 ·0	62 ·5
1. 13	14. 30	0. 45	·1132	1. 0:	·01205	3. 40	61 ·0	65 ·0
1. 57	14. 40		***	4. 10	·01005	9. 40	62 ·0	62 ·7
	(†)	3. 40	·1134		·01056	21. 40	56 ·0	58 ·0
3. 45	16. 0	3. 49	·1143	4. 50	·01080			
4. 3	8. 10	3. 58	·1134	6. 54	·01030			
4. 15	22. 14. 0	4. 3	·1144		·01405			
4. 40	21. 48. 30	4. 30	·1107	7. 45:	·01590			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 25		Oct. 25		Oct. 25				
h m	° ′ ″	h m		h m		h m	°	°
5. 0	21. 43. 0	5. 4	·1148	8. 30:	·01350			
5. 18	21. 51. 10		***	10. 50:	·01400			
5. 58	22. 11. 10	6. 3	·1114	11. 15:	·01580			
6. 9	7. 25	6. 15	·1125	13. 45	·01550			
6. 52	22. 7. 5	7. 4	·1132	15. 47	·01560			
7. 36	21. 54. 15	7. 10	·1126	18. 0:	·01545			
8. 7	22. 6. 15	7. 30	·1124	23. 10	·01570			
8. 17	4. 50	8. 0	·1140		·01450			
8. 32	6. 0	8. 15	·1136	23. 59	·01470			
9. 16	3. 30	8. 30	·1142					
	***	9. 0	·1136					
11. 3	5. 30	10. 4	·1149					
11. 30	4. 0	10. 15	·1144					
11. 47	7. 30	10. 28	·1152					
12. 18	5. 40	10. 35	·1149					
13. 58	6. 25	10. 58	·1162					
15. 13	5. 0	11. 15	·1154					
15. 59	7. 0	11. 40	·1152					
22. 0	4. 30	12. 20	·1158					
23. 59	9. 0	13. 8	·1152					
		15. 45	·1151					
		18. 10	·1161					
		19. 32	·1160					
		23. 23	·1140					
		23. 59	·1138					
Oct. 26		Oct. 26		Oct. 26		Oct. 26		
0. 17	22. 10. 0	0. 8	·1136	0. 30	·01434	1. 40	58 ·0	60 ·0
1. 43	10. 40	2. 16	·1132	2. 15:	·01270	3. 40	63 ·0	64 ·0
4. 15	6. 0		***	3. 50	·00940	9. 40	63 ·3	64 ·0
5. 28	5. 0	6. 25	·1140	5. 45	·00960	21. 48	59 ·0	61 ·0
6. 15	5. 20	6. 44	·1135	9. 0:	·00905			
6. 45	3. 50	7. 13	·1142	21. 15:	·01330			
7. 13	5. 0	7. 23	·1138	23. 59	·01350			
7. 28	2. 20		***					
8. 13	5. 0	9. 45	·1142					
9. 48	5. 0	10. 20	·1148					
10. 18	4. 0	10. 8	·1152					
12. 58	5. 0	18. 15	·1157					
14. 31	3. 50	18. 35	·1154					
15. 15	5. 30	20. 45	·1158					
15. 33	4. 45	22. 25	·1150					
16. 4	7. 45	23. 59	·1154					
16. 29	6. 0							
18. 22	4. 20							
18. 48	5. 0							
21. 35	3. 50							
22. 38	8. 30							
23. 59	11. 10							
Oct. 27		Oct. 27		Oct. 27		Oct. 27		
0. 30	22. 11. 0	0. 15	·1134	1. 0	·01325	1. 40	60 ·0	62 ·0
0. 53	11. 50		***	4. 0:	·01175	3. 40	58 ·0	62 ·5
1. 40	10. 30	3. 0	·1136	7. 55	·00895	9. 40	62 ·5	63 ·0
2. 50	11. 0	5. 8	·1145		·00920	21. 40	59 ·0	61 ·0
4. 35	7. 50	5. 35	·1141	10. 30:	·00900			
5. 45:	1. 15	6. 0	·1147	23. 50	·01115			
6. 1	4. 10	9. 40	·1148					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 27		Oct. 27						
h m	° ′ ″	h m		h m		h m	°	°
6. 33	22. 4. 20	10. 9	·1158					
7. 0	6. 10	10. 38	·1148					
9. 40	5. 30	20. 20	·1156					
10. 3	2. 40	22. 30	·1138					
10. 22	2. 50	23. 50	·1136					
10. 35	1. 0							
11. 18	4. 10							
11. 39	5. 0							
17. 47	5. 45							
20. 0	4. 20							
20. 55	3. 0							
22. 17	4. 5							
23. 22	8. 50							
23. 51	10. 0							
Oct. 28		Oct. 28		Oct. 28		Oct. 28		
0. 4	22. 10. 45	0. 50	·1132	0. 40	{·01125	1. 40	60 ·0	62 ·0
1. 40	11. 50	10. 0	·1149		{·00936	3. 40	62 ·0	63 ·8
4. 13	6. 35	12. 0	·1154	2. 55:	·00955	9. 40	60 ·3	61 ·8
6. 21	5. 30	20. 0	·1163	7. 0:	·00900	21. 40	55 ·0	57 ·5
12. 48	4. 35	22. 30	·1150	19. 0	·01545			
13. 17	4. 0	23. 59	·1136	19. 4	·01522			
14. 31	6. 0			23. 59	·01490			
16. 18	5. 0							
18. 7	4. 50							
21. 35	2. 30							
22. 21	3. 0							
23. 59	7. 25							
Oct. 29		Oct. 29		Oct. 29		Oct. 29		
0. 8	22. 7. 45	0. 15	·1133	0. 50	·01465	1. 40	59 ·0	61 ·0
1. 38	10. 0	4. 45	·1140	2. 30:	·01320	3. 40	58 ·5	60 ·0
4. 13	7. 0	8. 0	·1150	4. 48	{·01085	9. 40	57 ·5	59 ·0
8. 58	5. 15	9. 10	·1158		{·01495	23. 5	49 ·0	51 ·0
9. 12	4. 15	11. 15	·1158	8. 0:	·01376			
10. 5	5. 50	12. 45	·1154	11. 28	{·01534			
13. 7	3. 50	20. 38	·1170		{·01510			
13. 22	5. 10	20. 55	·1180	17. 38:	·01430			
15. 5	4. 40	21. 15	·1182	20. 40:	·01415			
16. 26	5. 30	21. 45	·1176	23. 21	·01370			
17. 18	4. 40	23. 15	·1174					
19. 45	4. 50 ***	23. 59	·1176					
21. 6	2. 30							
23. 59	7. 20							
Oct. 30		Oct. 30		Oct. 30		Oct. 30		
0. 18	22. 7. 0 ***	0. 15	·1170	0. 30:	·01400	9. 40	54 ·0	56 ·0
		1. 15	·1171 ***	5. 15:	·01255	21. 40	50 ·0	52 ·0
1. 55	9. 0 ***			10. 30:	·00930			
		2. 40	·1172	15. 0:	·01000			
3. 50	7. 30 ***	3. 53	·1172	21. 45	·01380			
		4. 7	·1183		(†)			
5. 6	13. 25	4. 40	·1177					
6. 20	10. 0 ***	5. 10	·1156 ***					
6. 50	11. 50	5. 45	·1144					
7. 17	8. 30	6. 37	·1164					
Oct. 30		Oct. 30						
7. 28	22. 10. 0	7. 4:	·1150					
7. 47	7. 0	7. 23	·1173					
9. 46	4. 0	7. 30	·1156					
12. 43	4. 0	7. 45	·1152					
13. 31	6. 15	8. 4	·1166					
13. 55	4. 30	8. 15	·1152					
18. 7	5. 0 ***	8. 34	·1168 ***					
21. 43	5. 0	12. 0	·1164 ***					
		16. 0	·1167					
		21. 45	·1168 (†)					
Oct. 31		Oct. 31		Oct. 31		Oct. 31		
0. 27	22. 15. 0	0. 30	·1166	0. 25	·01345	1. 40	55 ·0	57 ·0
1. 29	11. 25	1. 3	·1169 ***	3. 10:	·01080	3. 40	57 ·0	59 ·0
1. 37	9. 55			5. 30:	·00775	9. 40	55 ·0	56 ·2
1. 45	13. 5	1. 35	·1158	6. 28	·00930	21. 40	53 ·8	55 ·0
1. 50	11. 30	2. 0	·1168	6. 47:	·00870			
2. 0	13. 10	2. 15	·1161		***			
2. 13	10. 30	2. 50	·1168	7. 30	·00950			
2. 47	15. 5	3. 20	·1162	7. 40	·00930			
3. 22	14. 5 ***	3. 45	·1138		***			
		4. 8	·1146	8. 20:	·00975			
4. 12	18. 0	4. 33	·1135	8. 40	·00960			
4. 36	11. 30	4. 46	·1148	8. 57	·00990			
4. 47	14. 0 ***	4. 58	·1140		***			
		5. 14	·1144	9. 10	·00827			
5. 2	10. 0	5. 23	·1154	9. 14	·00840			
5. 15	10. 0	5. 44	·1140	9. 45	·00650			
5. 24	13. 30	5. 53	·1149	9. 53	·00648			
5. 43	5. 50	6. 0	·1142	10. 15	·00740			
5. 51	8. 30	6. 10	·1148	10. 25:	·00734			
6. 2	6. 0	6. 23	·1128	10. 40	·00750			
6. 15	18. 0	6. 44	·1154	15. 30:	·00741			
6. 33	5. 50	7. 2	·1104	21. 0:	·00860			
6. 57	20. 30	7. 16	·1130	23. 44	·00860			
7. 7	8. 35	7. 26	·1116					
7. 21	24. 20	7. 30	·1124					
7. 30	19. 30	7. 55	·1104 ***					
7. 52	23. 0							
8. 7	14. 25	8. 34	·1118					
8. 17	16. 0	8. 45	·1104					
8. 28	13. 50	8. 55	·1162					
8. 38	22. 18. 30	9. 9	·1120					
8. 54	21. 51. 15	9. 14	·1134					
9. 0	58. 0	9. 45	·1082					
9. 10	43. 15	11. 0	·1142					
9. 22	38. 15	11. 15	·1136					
9. 32	40. 0	12. 25	·1140 ***					
9. 42	49. 0							
9. 45	46. 0	19. 20	·1152 ***					
10. 5	59. 50							
10. 32	21. 52. 0	23. 20	·1120					
11. 13	22. 1. 0 ***	23. 45	·1122					
13. 5	5. 20 ***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 31								
h m	° ′ ″	h m		h m		h m	°	°
14. 13	22. 3. 0							
14. 47	5. 20							
	***							
18. 23	4. 30							
	***							
20. 23	3. 30							
	***							
22. 12	5. 0							
Nov. 1		Nov. 1		Nov. 1		Nov. 1		
0. 0	22. 11. 35	0. 30	·1128	0. 10	·00840	1. 40	57 ·0	58 ·8
0. 24	10. 0		***	1. 28	·00710	3. 40	58 ·7	58 ·8
1. 5	13. 30	2. 45	·1142		·00750	9. 40	59 ·0	60 ·5
1. 30	9. 35		***	3. 0:	·00837	21. 40	56 ·7	57 ·5
	***	3. 45	·1142	7. 8	·00880			
3. 8	9. 15	4. 15	·1130		·01120			
	***	4. 38	·1138	8. 15:	·01060			
4. 52	5. 40	5. 4	·1136	20. 0:	·01570			
5. 43	6. 40	5. 29	·1142	23. 59	·01470			
6. 6	5. 25	6. 15	·1132					
6. 24	0. 45	6. 28	·1146					
6. 30	22. 2. 0	6. 38	·1132					
6. 38	21. 56. 30	6. 46	·1143					
6. 46	58. 25	6. 53	·1136					
6. 55	21. 57. 0	7. 0	·1142					
7. 0	22. 1. 50	7. 7	·1132					
	***	7. 15	·1157					
7. 18	22. 0. 0	7. 23	·1134					
7. 25	21. 47. 20	7. 34	·1176					
7. 38	22. 1. 0	8. 0	·1148					
8. 13	4. 50	8. 30	·1142					
10. 9	5. 0	12. 8	·1158					
10. 31	4. 0	19. 25	·1164					
12. 2	6. 50	20. 53	·1160					
12. 52	5. 25	22. 45	·1145					
13. 13	11. 15	23. 58	·1146					
17. 47	6. 0							
21. 24	3. 50							
23. 12	8. 25							
23. 59	9. 0							
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
0. 32	22. 10. 10	0. 8	·1149	0. 30	·01440	1. 40	58 ·8	59 ·0
1. 2	9. 0	0. 45	·1146	4. 0:	·01080	3. 40	60 ·0	60 ·0
1. 30:	10. 40	5. 20	·1146	4. 35	·01050	9. 50	60 ·0	60 ·8
1. 52	8. 35	5. 40	·1154		·01282	21. 40	53 ·0	55 ·0
3. 17	7. 30	7. 16	·1149	5. 40:	·01210			
3. 54	5. 50	7. 33	·1137	6. 15:	·01250			
6. 0	5. 0	8. 0	·1158	6. 40:	·01252			
6. 47	7. 10	8. 20	·1148	15. 4	·01615			
7. 25	22. 5. 30	8. 45	·1144		·01570			
8. 0	21. 53. 0	9. 50	·1155	15. 52	·01575			
8. 28	22. 0. 0	13. 0	·1161	17. 8:	·01550			
9. 4	4. 0	15. 40	·1164	22. 15	·01500			
14. 59	6. 15	17. 0	·1170	23. 47	·01524			
15. 40	5. 10	18. 0	·1166					
16. 8	10. 30	19. 53	·1170					
17. 25	4. 0	23. 45	·1156					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 2		Nov. 2						
h m	° ′ ″	h m		h m		h m	°	°
17. 40	22. 5. 50	23. 59	·1158					
21. 31	4. 0							
22. 24	4. 0							
23. 18	6. 30							
23. 50	6. 30							
Nov. 3		Nov. 3		Nov. 3		Nov. 3		
0. 6	22. 7. 35	0. 0	·1158	0. 15	·01524	1. 40	55 ·0	57 ·0
0. 50	7. 35	3. 0	·1164	2. 30:	·01365	3. 40	58 ·0	59 ·5
1. 7	9. 0	4. 0	·1162	7. 30	·00785	9. 40	59 ·0	58 ·0
1. 33	7. 45	11. 30	·1166	7. 36	·00798	21. 40	55 ·7	56 ·2
5. 28	5. 15	11. 45	·1172	14. 45:	·00838			
6. 46	6. 0	12. 20	·1164	23. 0:	·01420			
12. 7	4. 30	19. 38	·1176	23. 59	·01455			
13. 38	6. 10	22. 38	·1155					
17. 34	6. 0	23. 59	·1151					
18. 32	5. 0							
21. 47	4. 50							
23. 43	9. 0							
23. 59	10. 0							
Nov. 4		Nov. 4		Nov. 4		Nov. 4		
1. 40	22. 11. 41*	1. 40	·1143*	0. 30	·01453	1. 40	56 ·0	58 ·0
3. 40	10. 33*	3. 40	·1152*	2. 30:	·01355	3. 40	58 ·0	59 ·0
9. 40	3. 32*	9. 40	·1166*	8. 0:	·00895	9. 40	56 ·8	57 ·0
21. 40	4. 43*	21. 40	·1163*	17. 30	·01303	21. 40	53 ·0	55 ·0
				22. 0	·01405			
				22. 14	·01480			
				23. 59	·01475			
Nov. 5		Nov. 5		Nov. 5		Nov. 5		
1. 40	22. 8. 20*	0. 0	·1154	0. 15	·01470	1. 40	54 ·0	56 ·0
3. 40	7. 10*	10. 30	·1174	2. 30:	·01385	3. 40	55 ·5	56 ·0
9. 40	4. 30*	18. 15	·1180	7. 45:	·01080	9. 40	55 ·5	56 ·0
23. 20	6. 41*	22. 32	·1166	20. 15	·01200	23. 20	53 ·0	56 ·0
		23. 59	·1164	23. 44	·01118			
Nov. 6		Nov. 6		Nov. 6		Nov. 6		
	(†)	0. 0	·1164	0. 0	·01100	9. 40	58 ·5	59 ·0
8. 33	22. 11. 30	7. 55	·1174	2. 0:	·00980	21. 40	56 ·0	57 ·7
13. 47	11. 20	9. 50	·1168	4. 11	·00765			
17. 18	12. 0	10. 38	·1172	12. 20	·00800			
19. 8	14. 30	11. 8	·1166		·01070			
21. 15	11. 40	20. 25	·1176	15. 0:	·01120			
22. 20	12. 40	23. 10	·1160	21. 30:	·01274			
22. 31	12. 0	23. 30	·1158	23. 30	·01280			
23. 38	14. 38							
Nov. 7		Nov. 7		Nov. 7		Nov. 7		
0. 17	22. 9. 0	0. 0	·1166	0. 20	·01280	1. 40	57 ·7	58 ·0
1. 23	10. 45	0. 15	·1158	2. 30:	·01220	3. 40	58 ·7	59 ·8
1. 33	11. 40	3. 30	·1157	5. 45:	·01000	9. 40	58 ·0	58 ·5
1. 47	11. 0	10. 28	·1162	7. 5	·00967	21. 40	56 ·0	58 ·0
2. 39	11. 25	11. 15	·1168	7. 20	·01102			
3. 33	8. 50	11. 45	·1162	16. 0:	·01125			
5. 41	6. 0	21. 7	·1182	23. 59	·01304			
7. 7	6. 20	23. 5	·1160					
7. 26	5. 10	23. 30	·1168					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

November 4. Some error had been made in the preparation of the photographic sheet for the Declination and Horizontal Force, and consequently no traces were shown.

November 5. There was no Photographic Trace for the Declination Magnet.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 7	° ′ ″	Nov. 7		h m		h m	°	°
h m		h m						
10. 38	22. 5. 10	23. 45	·1166					
11. 23:	1. 30							
12. 5	4. 15							
15. 12	6. 20							
16. 38	5. 0							
18. 52	5. 40							
20. 5	7. 0							
21. 43	5. 0							
22. 47	6. 40							
23. 47	12. 30							
23. 59	12. 10							
Nov. 8		Nov. 8		Nov. 8		Nov. 8		
0. 27	22. 10. 30	0. 15	·1163	1. 0	·01325	1. 40	57 ·0	59 ·0
0. 51	11. 0	0. 34	·1155	2. 45:	·01262	3. 40	58 ·0	59 ·5
1. 8	13. 10	1. 20	·1170	5. 55:	·01105	9. 40	57 ·5	59 ·0
1. 16	12. 45	1. 45	·1166		·01335	21. 40	47 ·5	51 ·0
1. 21	14. 50	2. 0	·1168	6. 55:	·01383			
			***	8. 5:	·01550			
1. 23	12. 55	5. 13	·1133	8. 30:	·01555			
1. 51	13. 0	4. 30	·1156	10. 0	·01674			
1. 53	15. 0	6. 0	·1158	10. 5	·01645			
2. 11	12. 50	6. 30	·1142	11. 8:	·01570			
2. 48	17. 10		***	22. 0:	·01354			
		8. 40	·1126	23. 59	·01369			
4. 2	10. 40	10. 25	·1153					
4. 30	12. 25	10. 46	·1172					
6. 8	22. 11. 20		***					
6. 59	21. 54. 0	11. 55	·1150					
7. 24	21. 52. 30	21. 8	·1180					
7. 47	22. 0. 20	23. 45	·1165					
7. 55	21. 59. 45	23. 56	·1166					
8. 10	22. 3. 0							
8. 48	21. 59. 30							
9. 33	22. 3. 40							
9. 40	2. 30							
9. 58	22. 4. 30							
10. 38	21. 57. 30							
10. 51	59. 25							
11. 7	56. 20							
11. 43	21. 58. 40							
12. 0	22. 3. 15							
12. 57	6. 0							
14. 15	6. 30							
15. 0	5. 20							
15. 28	7. 0							
22. 5	4. 45							
23. 59	8. 5							
Nov. 9		Nov. 9		Nov. 9		Nov. 9		
0. 30	22. 11. 10	0. 15	·1166	0. 30	·01372	1. 40	49 ·0	51 ·5
0. 55	13. 40	0. 40	·1164	2. 15:	·01350	3. 40	51 ·0	52 ·0
		1. 8	·1154	3. 30	·01215	9. 40	49 ·0	51 ·0
1. 17	12. 55	1. 30	·1162	5. 10	·01051	21. 40	45 ·0	47 ·0
		1. 45	·1157	5. 45	·01065			
1. 51	15. 5	2. 36	·1165	6. 20:	·00995			
		2. 56	·1157	7. 10	·00970			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 9	° ′ ″	Nov. 9		Nov. 9		h m	°	°
h m		h m		h m				
3. 43:	22. 7. 15	4. 0	·1168	8. 30:	·00830			
4. 15	12. 50	4. 35	·1150	10. 30	·00815			
4. 29	11. 0	4. 50	·1152	10. 44:	·00830			
4. 37	7. 0	5. 0	·1133	11. 8:	·00790			
			***	11. 50	·00805			
4. 50	22. 6. 30	5. 30	·1126	12. 55	·00705			
5. 12	21. 59. 15	6. 15	·1148	13. 28	·00766			
	***	6. 28	·1144	13. 45	·00745			
6. 32	22. 8. 5	6. 40	·1132	14. 20	·00820			
6. 53	21. 57. 0	6. 46	·1136	15. 15:	·00790			
7. 15	22. 9. 20	6. 51	·1128		***			
	***	7. 14	·1148	16. 45:	·00855			
9. 7	6. 0		***	17. 40	·00996			
9. 26	3. 0	7. 30	·1142	18. 13	·01030			
10. 1	22. 3. 30	8. 0	·1161	18. 42	·01190			
10. 30	21. 38. 30	8. 38	·1167		·01150			
10. 47	45. 30	8. 50	·1162		***			
10. 58	39. 10	8. 55	·1170	20. 45	·01270			
11. 12	41. 40		***	23. 59	·01370			
11. 21	39. 0	10. 16	·1160					
11. 41	43. 0	10. 46	·1205					
12. 3	50. 0	11. 17	·1148					
12. 58	47. 0	11. 34	·1134					
13. 27	56. 30	12. 4	·1154					
13. 47	58. 15	12. 23	·1160					
14. 13	21. 53. 25	13. 0	·1140					
14. 40	22. 0. 0	13. 23	·1148					
14. 54	21. 56. 15	13. 40	·1140					
15. 13	22. 10. 0	14. 15	·1174					
15. 19	11. 30	14. 30	·1168					
15. 42	6. 5	14. 46	·1184					
16. 0	20. 45	15. 17	·1148					
16. 6	18. 10	15. 37	·1165					
16. 25	25. 0	15. 53	·1158					
16. 31	24. 0		***					
16. 37	26. 30	16. 17	·1174					
17. 5	7. 45	16. 38	·1160					
17. 33	9. 30	17. 10:	·1174					
18. 8	2. 20	17. 37	·1151					
18. 39	18. 0		***					
18. 49	17. 0	18. 4	·1164					
19. 0	18. 0	18. 50	·1138					
19. 13	15. 30	19. 5	·1128					
19. 25	19. 0	19. 44	·1166					
19. 53	10. 20	19. 53	·1157					
20. 8	12. 0		***					
20. 32	11. 0	20. 27	·1168					
20. 41	9. 30	20. 38	·1182					
	***		***					
21. 53	4. 30	21. 55	·1166					
	***		***					
23. 28	7. 45	23. 30	·1170					
23. 33	12. 0	23. 45	·1164					
23. 59	12. 0	23. 59	·1166					
Nov. 10		Nov. 10		Nov. 10		Nov. 10		
0. 10	22. 11. 30	0. 0	·1166	0. 30	·01357	1. 40	47 ·0	48 ·0
0. 21	10. 0	0. 20	·1159	2. 15:	·01280	3. 40	50 ·0	53 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in Parts of the whole H. F. increased for Temperature.	Göttingen Mean Solar Time.	Vertical Force in Parts of the whole V. F. increased for Temperature.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 10		Nov. 10		Nov. 10		Nov. 10	
h m	° ′	h m		h m		h m	
0. 44	22. 11. 50	0. 43	·1164	3. 44	·01013	9. 40	52 ·5 53 ·0
1. 21	10. 20	0. 50	·1154			21. 40	45 ·0 47 ·0
1. 43	12. 15	1. 15	·1151	5. 10	·00800		
		1. 30	·1160	5. 45:	·00851		
2. 18	11. 0			7. 45:	·00690		
3. 13	12. 10	2. 25	·1151	11. 15	·00630		
3. 25	16. 0			14. 45:	·00760		
3. 43	12. 30	3. 23	·1163	20. 30:	·01289		
3. 45	15. 25	3. 35	·1154	23. 59	·01430		
3. 55	12. 0	3. 47	·1160				
4. 1	15. 30	3. 55	·1143				
4. 17	8. 0	4. 0	·1153				
4. 28	22. 11. 0	4. 8	·1140				
4. 51	21. 53. 50	4. 24	·1152				
5. 2	22. 5. 30	4. 34	·1146				
5. 7	21. 57. 30	4. 50	·1186				
5. 23	21. 50. 45	5. 0	·1184				
		5. 8	·1142				
5. 52	22. 2. 10	5. 25	·1129				
6. 16	9. 15						
6. 38	9. 10	6. 13	·1154				
7. 22	5. 25	6. 20	·1152				
7. 46	6. 10						
8. 47	3. 45	7. 30	·1164				
9. 5	4. 45						
9. 18	3. 25	9. 50	·1156				
9. 35	4. 10	10. 17	·1171				
9. 53	2. 0	10. 27	·1166				
10. 10	3. 10	10. 36	·1174				
10. 22	7. 0	10. 53	·1166				
10. 32	4. 50	11. 14	·1156				
10. 45	8. 0	11. 31	·1166				
11. 47:	1. 40						
12. 24	5. 30	18. 28	·1170				
12. 42	6. 0	18. 50	·1172				
14. 39	3. 50	20. 8	·1180				
15. 45	6. 30	22. 15	·1160				
17. 10	4. 50						
17. 53	6. 10	22. 43	·1168				
18. 17	6. 0	22. 50	·1164				
18. 38	8. 0	23. 0	·1167				
		23. 59	·1165				
20. 47	5. 30						
22. 28	5. 20						
23. 30	7. 15						
23. 55	10. 0						
Nov. 11		Nov. 11		Nov. 11		Nov. 11	
0. 18	22. 8. 15	0. 5	·1165	0. 43	·01455	1. 40	48 ·5 50 ·0
		1. 4	·1164	3. 15:	·01340	3. 40	49 ·7 52 ·4
1. 3	10. 20	1. 38	·1156	7. 30:	·00801	9. 40	48 ·0 50 ·5
		2. 10	·1164	10. 50:	·00735	21. 40	47 ·0 49 ·0
4. 17	5. 50	5. 8	·1169	18. 15:	·01150		
5. 17	22. 6. 40	5. 33	·1158	21. 0:	·01185		
5. 36	21. 59. 30	5. 55	·1173	23. 59	·01150		
6. 17	22. 5. 30	6. 30	·1170				

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in Parts of the whole H. F. increased for Temperature.	Göttingen Mean Solar Time.	Vertical Force in Parts of the whole V. F. increased for Temperature.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 11		Nov. 11					
h m	° ′	h m					
9. 6	22. 4. 30	9. 25	·1172				
9. 33	6. [illegible]	9. 43	·1181				
9. 47	4. 5	9. 52	·1177				
10. 2	0. 30	10. 10	·1185				
10. 27	4. 0	10. 30	·1179				
10. 52	2. 30	12. 15	·1172				
11. 56	5. 0	12. 30	·1176				
12. 20	4. 0						
12. 40	6. 10	21. 25	·1184				
		22. 30	·1170				
13. 35	5. 45	23. 59	·1170				
14. 15	8. 5						
14. 52	5. 0						
15. 58	6. 0						
17. 28	4. 0						
17. 41	5. 10						
17. 59	4. 0						
18. 30:	7. 45						
19. 30	4. 0						
21. 13	3. 20						
23. 32	6. 50						
23. 59	7. 25						
Nov. 12		Nov. 12		Nov. 12		Nov. 12	
0. 23	22. 7. 30	0. 15	·1168	0. 20	·01140	1. 40	52 ·5 53 ·0
2. 16	8. 0	2. 16	·1165	2. 0:	·01000	3. 40	53 ·5 54 ·0
2. 38	6. 30	2. 40	·1159	3. 57	[illegible]	9. 40	53 ·5 54 ·0
2. 58	7. 30	5. 8	·1162		[illegible]	23. 8	52 ·5 53 ·0
3. 45	5. 40			12. 15	·00680		
4. 16	6. 25	12. 0	·1166	12. 20	·00690		
5. 16	4. 20			12. 37:	·00673		
6. 32	5. 30	14. 35	·1166	16. 0:	·00770		
6. 53	4. 0			21. 0:	·00990		
7. 6	0. 35	20. 5	·1176	23. 22	·01050		
7. 24	3. 30	23. 59	·1176				
7. 33	1. 25						
8. 17	5. 20						
8. 38	3. 30						
11. 13	4. 30						
12. 2	22. 0. 40						
12. 13	21. 54. 50						
12. 25	22. 4. 0						
12. 44	0. 0						
13. 7	4. 25						
13. 34	2. 10						
14. 47	5. 50						
16. 21	6. 10						
17. 13	4. 25						
18. 54	5. 30						
20. 52	5. 0						
23. 59	8. 15						
Nov. 13		Nov. 13		Nov. 13		Nov. 13	
0. 7	22. 8. 20	0. 0	·1179	0. 0	·01061	18. 7	52 ·0 53 ·7
1. 30	8. 0	9. 20	·1179	2. 45:	·01055	21. 40	49 ·0 51 ·0
1. 40	9. 0	9. 40	·1168	7. 30:	·00890		

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 13		Nov. 13		Nov. 13				
h m	° ′ ″	h m		h m		h m	°	°
3. 2	22. 6. 20	10. 0	·1168	11. 0	·00870			
3. 23	8. 20	10. 25	·1174	14. 30:	·00980			
3. 44	6. 55	11. 4	·1172	23. 59	·01445			
4. 5	8. 0	11. 34	·1176					
4. 33	5. 50	12. 4	·1172					
5. 52	5. 30	19. 40	·1186					
6. 17	7. 0	21. 0	·1178					
7. 57	7. 30	21. 46	·1182					
8. 23	4. 30	23. 33	·1172					
8. 40	6. 0	23. 50	·1179					
9. 13	3. 0	23. 59	·1172					
9. 35	5. 50							
10. 6	4. 50							
10. 18	3. 30							
10. 43	5. 15							
10. 53	7. 0							
11. 17	4. 15							
11. 37	4. 45							
11. 47	3. 30							
12. 1	6. 35							
12. 17	5. 5							
13. 32	6. 0							
14. 31	8. 0							
15. 20	7. 0							
17. 48	6. 35							
18. 50	5. 40							
21. 38	6. 50							
23. 26	6. 0							
23. 59	8. 45							
Nov. 14		Nov. 14		Nov. 14		Nov. 14		
0. 52	22. 8. 0	0. 15	·1174	0. 45	·01455	1. 40	49 ·2	51 ·8
4. 7	6. 0	0. 45	·1173	2. 45:	·01400	3. 40	51 ·0	52 ·3
6. 32	5. 20	1. 23	·1170	7. 15:	·01075	9. 40	50 ·5	52 ·5
7. 22	6. 0	1. 50	·1179	12. 30	·01115	21. 40	45 ·5	48 ·5
9. 39	5. 10	2. 33	·1182	16. 0:	·01240			
13. 48	6. 30	2. 50	·1178	19. 5	·01438			
14. 0	7. 30	3. 4	·1182		·01393			
14. 46	5. 35	3. 40	·1172	23. 45	·01373			
15. 43	7. 20	15. 8	·1178					
16. 33	6. 30	20. 15	·1189					
19. 58	5. 30	20. 34	·1184					
20. 25	6. 50	23. 50	·1186					
21. 58	6. 0							
23. 51	9. 0							
Nov. 15		Nov. 15		Nov. 15		Nov. 15		
0. 0	22. 7. 0	0. 0	·1180	0. 30	·01390	1. 40	45 ·8	49 ·0
1. 13	7. 0		***	1. 23:	·01413	3. 40	48 ·2	50 ·0
4. 22	3. 5	3. 16	·1174	7. 30:	·00900	9. 40	49 ·5	52 ·3
10. 43	2. 0	3. 45	·1178	15. 15	·00730	21. 40	47 ·0	50 ·0
11. 28	0. 50	11. 45	·1178	19. 0:	·00980			
11. 53	1. 30	12. 30	·1178	22. 30:	·00930			
12. 22	0. 0	13. 4	·1184	23. 59	·00905			
12. 50	2. 10	13. 45	·1178					
13. 31	0. 30	14. 40	·1178					
14. 12	2. 35	15. 14	·1184					
14. 44	7. 30	16. 10	·1181					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 15		Nov. 15						
h m	° ′ ″	h m		h m		h m	°	°
15. 32	22. 2. 0	17. 55	·1190					
15. 54	2. 55	21. 25	·1180					
20. 46	3. 50	22. 5	·1166					
21. 13	6. 35	23. 59	·1168					
21. 43	4. 0							
22. 33	7. 0							
23. 57	6. 55							
Nov. 16		Nov. 16		Nov. 16		Nov. 16		
0. 17	22. 7. 0	0. 0	·1168	0. 20	·00900	1. 40	50 ·0	51 ·0
1. 18	8. 10	2. 36	·1168	2. 0:	·00800	3. 40	49 ·5	51 ·0
2. 11	7. 0	3. 17	·1150	4. 15	·00634	9. 40	51 ·0	52 ·0
2. 22	8. 15	3. 36	·1154	4. 25	·00655	21. 40	42 ·0	43 ·0
3. 7	7. 50	4. 30	·1178	5. 15:	·00660			
3. 20	5. 30	9. 15	·1181	8. 15:	·00585			
4. 6	3. 30	10. 25	·1173	11. 40	·00685			
5. 45	4. 10	11. 20	·1175	12. 10	·00990			
6. 8	2. 30	17. 15	·1190	19. 4	·01332			
8. 15	2. 50	18. 40	·1201	19. 10	·01320			
8. 32	2. 0	20. 35	·1196	20. 40	·01300			
9. 17	22. 2. 30	23. 15	·1167	23. 53	·01368			
9. 53	21. 59. 30	23. 59	·1165					
10. 33	22. 1. 30							
10. 47	21. 58. 40							
10. 58	21. 58. 50							
11. 9	22. 3. 30							
11. 23	0. 15							
11. 47:	22. 3. 30							
12. 22:	21. 58. 40							
13. 6	22. 3. 25							
13. 27	2. 50							
14. 24	5. 10							
15. 10	4. 20							
16. 54	5. 0							
17. 7	6. 0							
18. 5	4. 35							
18. 46	4. 50							
19. 13	5. 30							
19. 58	4. 15							
21. 31	3. 35							
23. 52	8. 10							
Nov. 17		Nov. 17		Nov. 17		Nov. 17		
0. 0	22. 9. 10	0. 0	·1164	0. 30	·01380	1. 40	44 ·0	45 ·5
	***	1. 27	·1166	3. 15:	·01370	3. 40	45 ·0	47 ·0
1. 35	8. 50	1. 50	·1158	8. 30:	·00880	9. 40	45 ·0	47 ·0
2. 18	5. 0	3. 20	·1170	14. 0:	·00990	21. 40	39 ·0	41 ·0
3. 57	5. 0	4. 45	·1164	17. 57	·01345			
4. 58	3. 25	7. 8	·1176		·01315			
9. 37	2. 25	12. 0	·1176	21. 15:	·01370			
9. 53	3. 10	12. 25	·1183	23. 0	·01370			
12. 2	3. 0	12. 45	·1177	23. 59	·01400			
12. 25	1. 15	13. 0	·1176					
12. 44	22. 2. 0	13. 28	·1192					
13. 8	21. 59. 40	14. 30	·1181					
13. 40	22. 4. 35	19. 30	·1192					
15. 41	3. 30	22. 23	·1177					
18. 27	4. 0	23. 45	·1172					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
Nov. 17		Nov. 17						
h m	° ′ ″	h m		h m		h m		
19. 28	22. 5. 40	23. 59	·1169					
20. 43	4. 30							
21. 28	5. 20							
22. 23	4. 25							
22. 53	6. 25							
23. 2	5. 35							
23. 59	7. 30							
Nov. 18		Nov. 18		Nov. 18		Nov. 18		
0. 10	22. 7. 30	0. 30	·1164	1. 15	·01373	1. 40	43 ·5	45 ·0
2. 35	5. 30	2. 9	·1162	2. 30:	·01205	3. 40	48 ·5	50 ·5
3. 5	2. 50	3. 3	·1152	4. 27	·00730	9. 40	47 ·7	48 ·5
3. 43	5. 0	3. 15	·1166	4. 35	·00750	21. 40	41 ·5	45 ·0
5. 12	4. 50	4. 53	·1150	9. 30:	·00640			
5. 29	6. 0	5. 43	·1162	23. 15:	·01295			
6. 39	5. 0	7. 14	·1165	23. 59	·01305			
7. 6	22. 5. 40	7. 45	·1158					
7. 53	21. 53. 45	8. 25	·1168					
9. 15	22. 2. 35	9. 0	·1165					
13. 21	3. 30	13. 15	·1175					
13. 34	4. 50	17. 15	·1180					
14. 2	3. 50	19. 30	·1192					
14. 36	4. 50	23. 0	·1166					
15. 2	3. 40	23. 58	·1162					
15. 26	5. 40							
16. 7	5. 20							
16. 43	7. 50							
16. 55	6. 0							
17. 31	5. 50							
18. 36	5. 10							
19. 0	5. 50							
19. 30	4. 35							
23. 15	4. 50							
23. 58	7. 0							
Nov. 19		Nov. 19		Nov. 19		Nov. 19		
0. 3	22. 7. 20	0. 15	·1166	0. 15	·01300	1. 40	46 ·0	48 ·5
0. 36	6. 0	1. 0	·1161	1. 20:	·01234	3. 40	49 ·0	50 ·5
1. 33	7. 0	5. 20	·1166	3. 49	·00750	9. 40	48 ·8	50 ·0
3. 50	3. 10	5. 45	·1161		·00790	23. 31	45 ·0	47 ·5
5. 35	4. 0	6. 22	·1168	4. 10	·00795			
6. 18	1. 30		***		·00815			
7. 49	4. 0	9. 2	·1169	7. 35	·00755			
8. 25	2. 30	9. 35	·1159		·00970			
9. 2	22. 3. 25	10. 2	·1167	8. 23	·00935			
9. 30	21. 56. 0	11. 45	·1172	10. 25:	·01260			
9. 58	21. 53. 35		***	14. 38:	·01262			
10. 45	22. 1. 15	15. 55	·1187	18. 38	·01560			
14. 24	4. 25	17. 0	·1181	23. 45	·01540			
14. 37	3. 45	19. 0	·1192					
15. 20	4. 40	23. 30	·1178					
15. 41	3. 10	23. 59	·1176					
17. 16	6. 0							
17. 45	4. 30							
18. 9	5. 20							
18. 57	3. 50							
19. 9	4. 30							
22. 5	3. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
Nov. 19								
h m	° ′ ″	h m		h m		h m		
23. 46	22. 4. 30							
Nov. 20		Nov. 20		Nov. 20		Nov. 20		
0. 0	22. 4. 50	0. 20	·1175	0. 15	·01535	1. 40	48 ·5	50 ·0
1. 20	6. 0	7. 40	·1185	3. 0:	·01412	21. 40	42 ·0	44 ·0
1. 25	7. 0	9. 10	·1178	7. 45:	·01120			
1. 51	7. 0	9. 33	·1185	14. 0:	·00965			
2. 43	4. 50	10. 4	·1179	23. 0	·01524			
9. 13	3. 10	10. 25	·1184		·01485			
9. 27	0. 30	11. 14	·1179	23. 59	·01505			
10. 15	22. 4. 10	12. 0	·1190					
10. 43	21. 58. 35	12. 39	·1182					
11. 23	22. 2. 50	20. 55	·1191					
12. 3	4. 30	21. 38	·1186					
12. 15	3. 30	22. 16	·1191					
12. 53	2. 40	23. 35	·1184					
13. 32	4. 0	23. 59	·1181					
20. 27	5. 30							
22. 24	3. 0							
23. 59	6. 0							
Nov. 21		Nov. 21		Nov. 21		Nov. 21		
0. 7	22. 6. 30	0. 0	·1181	1. 8	·01520	1. 40	45 ·0	47 ·5
0. 24	7. 0	1. 30	·1178	2. 45:	·01470	3. 40	48 ·0	50 ·0
1. 58	6. 40	4. 15	·1162	6. 30:	·00920	9. 40	48 ·0	51 ·0
2. 21	7. 0	11. 8	·1182	9. 30:	·00730	21. 40	42 ·0	44 ·0
3. 57	4. 0	15. 0	·1183	16. 0:	·01050			
4. 17	3. 10	15. 45	·1193	20. 10	·01460			
5. 49	4. 0	16. 13	·1188	21. 50	·01445			
6. 11	5. 10	18. 50	·1208		(†)			
9. 45	3. 15	19. 45	·1200					
14. 0	5. 0	21. 40	·1197					
14. 54	4. 0		(†)					
15. 15	5. 30							
16. 5	2. 30							
17. 17	3. 30							
17. 42	1. 30							
19. 35	4. 30							
21. 50	4. 20							
	(†)							
Nov. 22		Nov. 22		Nov. 22		Nov. 22		
1. 10	22. 10. 0	0. 0	·1178	2. 15	·01462	1. 40	43 ·5	45 ·0
3. 50	6. 0		***	3. 45:	·01340	3. 40	45 ·5	47 ·2
5. 29	5. 45	6. 15	·1178	7. 0:	·00900	9. 40	45 ·8	47 ·0
6. 0	6. 10	7. 34	·1155	9. 25:	·00770	21. 40	41 ·0	43 ·0
7. 26	4. 0	8. 8	·1154	10. 0	·00670			
7. 36	1. 30		***	10. 15:	·00720			
7. 46	3. 30	9. 5	·1175	10. 30	·00710			
7. 58	2. 30	9. 17	·1162	12. 30:	·00765			
8. 7	3. 35	9. 40	·1187	23. 15	·01430			
8. 17	1. 30	9. 57	·1180	23. 59	·01420			
8. 29	4. 30	10. 16	·1186					
8. 43	2. 30	10. 35	·1188					
8. 55	3. 0	10. 50	·1175					
9. 3	1. 0	12. 50	·1174					
9. 14	4. 20	14. 0	·1187					
9. 26	0. 15	14. 35	·1180					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.22		Nov.22						
h m	° ′ ″	h m		h m		h m	°	°
9. 43	22. 8. 15	18. 8	·1184					
10. 6	21. 49. 0	19. 23	·1192					
10. 30	38. 0	23. 59	·1172					
10. 48	21. 59. 0							
11. 9	22. 3. 0							
13. 58	4. 50							
14. 17	8. 0							
14. 53	4. 50							
15. 20	5. 50							
17. 36	4. 30							
21. 38	4. 0							
23. 59	5. 30							
Nov.23		Nov.23		Nov.23		Nov.23		
0. 20	22. 6. 0	0. 0	·1172	2. 0	·01420	1. 40	43 ·0	44 ·5
1. 20	9. 0	3. 0	·1163	2. 45:	·01380	3. 40	45 ·0	47 ·3
3. 0	7. 0	4. 30	·1176	8. 30	·00970	9. 44	44 ·0	45 ·5
3. 15	7. 10	5. 0	·1174	17. 53	·01415	21. 40	40 ·0	42 ·5
3. 53	6. 0	5. 38	·1184		·01390			
4. 40	7. 30		***	22. 0:	·01400			
5. 32	4. 0	6. 27	·1175	23. 59	·01390			
5. 52:	7. 15	7. 15	·1187					
6. 30	4. 50	15. 38	·1192					
11. 58	3. 50	20. 28	·1206					
12. 12	2. 10	23. 40	·1178					
12. 42	4. 20	23. 59	·1169					
12. 55	3. 30							
13. 30	5. 0							
16. 47	4. 30							
17. 17	2. 30							
18. 5	4. 0							
21. 51	3. 30							
23. 26	5. 30							
23. 42	7. 10							
23. 59	6. 30							
Nov.24		Nov.24		Nov.24		Nov.24		
0. 6	22. 6. 45	0. 0	·1169	1. 0	·01375	1. 40	42 ·5	44 ·0
1. 30	8. 30	1. 0	·1169	2. 0:	·01300	3. 40	45 ·0	45 ·0
4. 40	3. 35	4. 15	·1171	7. 30:	·00640	9. 40	46 ·0	47 ·5
	(†)	7. 40	·1181	8. 45	·01560	21. 40	42 ·0	43 ·5
6. 48	3. 30	8. 0	·1176	14. 8:	·00572			
9. 1	3. 30	13. 0	·1180	23. 59	·00790			
12. 48	3. 0	13. 25	·1189					
13. 4	4. 40	14. 55	·1184					
14. 2	1. 0	20. 38	·1191					
16. 12	2. 45		***					
	(†)	22. 0	·1181					
18. 50	2. 0		(†)					
	***							
21. 52	4. 30							
	***							
23. 20	7. 30							
23. 49	6. 30							
Nov.25		Nov.25		Nov.25		Nov.25		
0. 39	22. 6. 10	1. 0	·1177	0. 30	·00780	1. 40	48 ·0	50 ·0
1. 31	7. 0	2. 0	·1172	2. 0:	·00735	3. 40	49 ·0	52 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.25		Nov.25		Nov.25		Nov.25		
h m	° ′ ″	h m		h m		h m	°	°
1. 46	22. 8. 30	12. 13	·1178	3. 30	·00615	9. 40	48 ·0	48 ·5
1. 57	7. 0		***		·00650	21. 40	48 ·0	49 ·0
3. 51	4. 15	14. 30	·1179	6. 25	·00605			
6. 15	2. 30	18. 56	·1187		·00625			
12. 15	3. 25	23. 59	·1168	23. 59	·00632			
12. 33	5. 30							
13. 5	2. 40							
13. 23	4. 30							
14. 16	3. 0							
14. 50	3. 25							
15. 25	7. 0							
16. 2	3. 0							
16. 28	4. 20							
17. 4	2. 15							
17. 29	4. 0							
18. 12	2. 30							
22. 16	3. 25							
23. 59	5. 15							
Nov.26		Nov.26		Nov.26		Nov.26		
0. 37	22. 5. 10	0. 0	·1168	0. 40	·00645	1. 40	49 ·0	50 ·0
2. 28	4. 50	8. 45	·1177	5. 48	·00700	3. 40	49 ·5	51 ·0
5. 55	2. 40	9. 32	·1168		·00870	9. 40	49 ·0	50 ·5
9. 10	3. 30	15. 17	·1184	7. 0:	·00850	23. 20	45 ·0	45 ·5
9. 31	0. 45	19. 30	·1194	14. 0	·00915			
10. 22	3. 15	22. 45	·1191	18. 30:	·01015			
12. 7	4. 0	23. 0	·1193	23. 20	·01230			
17. 6	4. 35			23. 22	·01232			
20. 15	3. 10							
22. 40	4. 30							
23. 59	7. 30							
Nov.27		Nov.27		Nov.27		Nov.27		
0. 24	22. 6. 30	0. 20	·1190	0. 0	·01271	10. 26	45 ·0	48 ·0
2. 22	7. 0		***	3. 15:	·01370	21. 40	43 ·5	46 ·2
2. 40	5. 30	2. 38	·1187	7. 0	·01360			
	***	4. 53	·1193		(†)			
9. 7	22. 3. 0	5. 20	·1185	10. 30	·01370			
9. 37	21. 57. 0	6. 0	·1191	14. 45:	·01400			
10. 2	22. 1. 0	8. 40	·1189	19. 0	·01520			
10. 41:	21. 52. 0	9. 30	·1174		(†)			
11. 27	22. 3. 30	10. 16	·1189	23. 59	·01490			
	***	11. 2	·1171					
13. 58	2. 10	11. 30	·1183					
14. 44	5. 30	13. 15	·1182					
21. 26	3. 0	20. 45	·1196					
23. 59	6. 0	23. 15	·1184					
		23. 59	·1179					
Nov.28		Nov.28		Nov.28		Nov.28		
0. 13	22. 6. 0	0. 5	·1178	1. 17	·01460	1. 40	49 ·0	50 ·0
2. 10	8. 0	1. 5	·1174	3. 0:	·01320	3. 40	48 ·0	49 ·0
2. 23	6. 0	1. 45	·1178	4. 40:	·01080	9. 40	49 ·0	49 ·5
2. 51	8. 0	5. 4	·1170	8. 45:	·00695	21. 40	44 ·0	45 ·5
3. 46	7. 30		***	9. 20:	·00720			
4. 8	8. 45	6. 5	·1178	13. 30	·00730			
4. 58	4. 25		***	16. 30:	·00825			
7. 12	6. 50	9. 0	·1169	23. 59	·01280			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 28		Nov. 28						
h m	° ′ ″	h m		h m		h m		
7. 37	22. 5. 0	9. 40	·1178					
8. 43	8. 30	10. 0	·1170					
9. 5	0. 15	11. 0	·1175					
9. 43	3. 0	12. 45	·1170					
10. 2	1. 30	20. 53	·1183					
10. 50	6. 30	23. 59	·1173					
12. 26	4. 35							
12. 58	6. 0							
14. 26	4. 35							
14. 49	8. 0							
15. 29	4. 30							
16. 20	6. 0							
16. 48	4. 0							
17. 29	6. 0							
	***							
21. 31	4. 35							
	***							
23. 11	7. 30							
23. 32	9. 0							
23. 59	8. 30							
Nov. 29		Nov. 29		Nov. 29		Nov. 29		
0. 15	22. 8. 30	0. 0	·1173	0. 45	·01315	1. 40	45 ·5	47 ·5
	***	1. 0	·1172	2. 15:	·01316	3. 40	49 ·0	51 ·5
2. 46	7. 40	7. 20	·1178	7. 15:	·01030	9. 40	47 ·5	48 ·0
3. 6	6. 15	8. 0	·1168	17. 35	·00685	21. 40	49 ·5	50 ·0
5. 35	4. 40	8. 35	·1172		·00715			
7. 22	5. 25	9. 8	·1184	23. 59	·00740			
8. 0	22. 2. 40	9. 35	·1174					
9. 7	21. 59. 35	12. 0	·1178					
9. 34	22. 0. 30	21. 30	·1185					
10. 17	4. 10	23. 59	·1172					
11. 21	3. 15							
11. 43	4. 45							
12. 2	3. 30							
12. 24	5. 10							
14. 32	5. 50							
21. 46	4. 30							
23. 59	6. 50							
Nov. 30		Nov. 30		Nov. 30		Nov. 30		
0. 27	22. 6. 40	0. 0	·1172	0. 20	·00750	1. 40	51 ·5	52 ·8
2. 57	7. 10	1. 0	·1167	4. 15:	·00850	3. 40	53 ·5	54 ·5
6. 51	3. 30	5. 30	·1160	17. 35:	·00815	9. 40	54 ·5	55 ·0
7. 20	4. 40	6. 45	·1165	23. 59	·00850	21. 50	54 ·0	55 ·0
8. 58	22. 4. 30	9. 20	·1155					
9. 29	21. 58. 0	9. 40	·1175					
9. 52	22. 3. 10	10. 8	·1164					
10. 6	1. 45	14. 35	·1174					
10. 36	4. 30	16. 30	·1164					
12. 45	4. 0	18. 5	·1173					
13. 31	5. 30	18. 35	·1169					
15. 52	4. 50	23. 59	·1161					
16. 38	8. 0							
17. 53	5. 30							
21. 17	5. 10							
23. 58	7. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 1		Dec. 1		Dec. 1		Dec. 1		
h m	° ′ ″	h m		h m		h m		
0. 12	22. 7. 0	0. 0	·1161	0. 30	·00855	1. 40	54 ·5	56 ·5
1. 56	8. 30	4. 15	·1162	2. 88	·00[illegible]	3. 40	55 ·0	56 ·5
4. 38	5. 0	4. 45	·1167		·01[illegible]	21. 40	43 ·5	47 ·5
10. 48	4. 40	5. 50	·1161	4. 0	·01[illegible]			
16. 40	7. 30	8. 30	·1163	4. 40:	·01110			
16. 58	10. 0	11. 50	·1176	7. 0:	·01[illegible]			
17. 36	7. 30	17. 0	·1196	12. 30	·01680			
19. 0	9. 50	17. 53	·1207	18. 30	·01[illegible]			
19. 42	14. 0	19. 15	·1183	23. 59	·01525			
19. 51	12. 15	20. 44	·1196					
20. 9	14. 30	21. 16	·1184					
21. 4	10. 30	21. 34	·1189					
21. 53	10. 0	23. 58	·1179					
22. 53	6. 0							
23. 4	8. 0							
23. 20	7. 0							
23. 59	9. 0							
Dec. 2		Dec. 2		Dec. 2		Dec. 2		
0. 7	22. 8. 30	0. 15	·1176	0. 15	·01500	1. 40	44 ·5	46 ·5
0. 55	12. 10	1. 34	·1162	1. 45:	·01560	3. 40	45 ·5	47 ·5
	***	7. 46	·1172	5. 30:	·01[illegible]	9. 40	49 ·5	48 ·5
1. 56	7. 6	8. 7	·1166	9. 15:	·00[illegible]	21. 40	41 ·0	43 ·0
4. 21	4. 50	9. 0	·1174	16. 30:	·0118[illegible]			
6. 31	4. 0	10. 4	·1175	21. 18	·0147[illegible]			
7. 46	7. 46	10. 16	·1170		·01440			
8. 9	0. 30	10. 50	·1176	23. 55	·01470			
8. 37	3. 35	12. 40	·1179					
9. 29	4. 35	13. 8	·1188					
11. 20	2. 30	14. 8	·1180					
12. 58	6. 20	18. 35	·1200					
13. 33:	3. 30	21. 25	·1188					
13. 17	6. 50	21. 53	·1189					
	***	22. 53	·1176					
15. 7	7. 40	23. 50	·1182					
15. 27	6. 0							
17. 24	7. 30							
17. 28	5. 30							
19. 2	5. 35							
20. 10	7. 30							
20. 52	6. 0							
22. 10	6. 10							
22. 18	7. 30							
22. 55	8. 20							
23. 33	7. 25							
23. 50	8. 0							
Dec. 3		Dec. 3		Dec. 3		Dec. 3		
0. 37	22. 7. 30	2. 0	·1174	0. 30	·01480	1. 40	45 ·0	46 ·5
1. 25	10. 35	3. 45	·1172	2. 0:	·01460	3. 40	47 ·0	49 ·0
2. 50	7. 40	4. 45	·1177	7. 0:	·00990	9. 40	46 ·0	48 ·0
3. 43	8. 50	5. 40	·1171	17. 0:	·00722	23. 20	42 ·5	44 ·0
4. 32	7. 0	6. 25	·1183	23. 59	·00850			
4. 43	8. 0	8. 40	·1174					
6. 36	4. 35	9. 50	·1176					
7. 25	6. 30	10. 15	·1183					
	***	10. 40	·1174					
9. 41	3. 35	12. 5	·1173					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 3		Dec. 3						
h m	° ′ ″	h m		h m		h m		
10. 7	22. 0. 0	12. 45	·1187					
10. 21	1. 0	13. 46	·1176					
10. 43	0. 0	18. 35	·1194					
12. 15	5. 25	23. 15	·1177					
12. 33	0. 30	23. 30	·1178					
13. 13	1. 0							
14. 14	6. 0							
16. 7	6. 30							
16. 44	8. 0							
18. 30	5. 30							
19. 40	7. 10							
22. 15	6. 30							
23. 18	10. 0							
23. 59	10. 30							
Dec. 4		Dec. 4		Dec. 4		Dec. 4		
0. 15	22. 10. 30	0. 45	·1174	0. 45	·00865	9. 40	45 ·5	47 ·5
2. 55	9. 5	1. 15	·1170	5. 15:	·00850	21. 40	47 ·0	50 ·0
3. 33	11. 0	3. 30	·1182	11. 0	·00670			
4. 20	8. 10	5. 8	·1167	14. 0	·00620			
	***		***	21. 54	·00565			
5. 30	11. 30	7. 3	·1168		(†)			
6. 13	8. 10	7. 14	·1163					
6. 28	10. 30	9. 15	·1179					
7. 17	5. 35	10. 40	·1166					
8. 43	5. 30	10. 53	·1176					
9. 33	2. 30	11. 50	·1170					
10. 35	22. 4. 30	13. 38	·1186					
11. 13	21. 52. 35	14. 34	·1171					
11. 53	22. 0. 0	15. 47	·1182					
12. 23	2. 35	17. 15	·1172					
13. 5	2. 40	18. 8	·1191					
13. 15	22. 3. 40	20. 45	·1188					
13. 42	21. 59. 30	21. 45	·1176					
14. 16	21. 58. 0		(†)					
15. 3	22. 4. 30							
16. 32	4. 0							
17. 47	11. 0							
18. 20	7. 30							
18. 45	9. 30							
21. 47	12. 35							
	(†)							
Dec. 5		Dec. 5		Dec. 5		Dec. 5		
1. 7	22. 10. 40	1. 15	·1178		(†)	1. 40	45 ·0	47 ·0
1. 45	12. 0	2. 6	·1170	9. 55	·00710	3. 40	48 ·8	50 ·0
2. 17	10. 30	4. 15	·1174	14. 5:	·00670	9. 40	50 ·0	52 ·0
2. 39	12. 0	7. 0	·1186	23. 59	·00870	21. 40	48 ·0	50 ·0
3. 55	10. 40	9. 15	·1175					
4. 45	6. 20	9. 50	·1185					
8. 44	5. 25	10. 20	·1178					
9. 2	5. 0	12. 37	·1188					
9. 24	22. 4. 45	14. 30	·1181					
9. 41	21. 57. 0	20. 10	·1196					
10. 32	22. 5. 0	20. 54	·1188					
11. 44	22. 4. 10	22. 0	·1198					
12. 36	21. 59. 35	23. 59	·1180					
13. 12	22. 0. 35							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 5								
h m	° ′ ″	h m		h m		h m	′	°
13. 38	22. 3. 45							
14. 28	3. 25							
15. 13	5. 50							
19. 15	6. 20							
20. 0	7. 50							
22. 1	6. 20							
22. 41	8. 25							
23. 22	7. 30							
23. 34	11. 30							
23. 59	10. 30							
Dec. 6		Dec. 6		Dec. 6		Dec. 6		
0. 31	22. 7. 15	0. 0	·1180	0. 40	·00880	1. 40	47 ·0	52 ·5
1. 55	23. 50		***		***	3. 40	49 ·5	52 ·0
2. 27	15. 45	2. 0	·1148	3. 22	·00940	9. 40	47 ·0	49 ·0
2. 37	17. 0		***	4. 0	·01030	21. 40	45 ·5	47 ·5
3. 0	17. 10	2. 28	·1154	4. 25	·01125			
3. 2	15. 30	2. 40	·1136	4. 35	·01085			
3. 13	20. 0		***	4. 54	·01124			
3. 31	22. 0	3. 8	·1160	5. 3	·01100			
3. 36	25. 30	3. 10	·1146		·01130			
3. 54	17. 30	3. 16	·1160	5. 25	·01120			
4. 7	27. 0	3. 44	·1165	5. 40	·01155			
4. 14	22. 50	3. 53	·1146	5. 55	·01050			
4. 19	26. 0	4. 3	·1160	6. 14	·01120			
	***	4. 25	·1136	6. 26	·01050			
4. 36	20. 0	4. 30	·1140		***			
4. 46	24. 0		***	7. 20	·00970			
4. 51	18. 35	4. 53	·1122		***			
4. 55	19. 30	5. 0	·1132	7. 45	·01016			
	***	5. 17	·1132	7. 57	·01150			
5. 8	15. 30	5. 25	·1120	8. 5	·01120			
5. 17	18. 45	5. 35	·1132	8. 25	·01390			
5. 22	12. 30	5. 46	·1104	8. 30	·01310			
5. 27	12. 20	5. 56	·1120	8. 33	·01390			
5. 32	19. 0	6. 20	·1098	8. 46	·00870			
5. 50	2. 10		***	9. 12	·00600			
6. 7	22. 12. 0	6. 55	·1128	9. 35	·00923			
6. 23	21. 52. 10	6. 59	·1121		***			
6. 33	57. 0	7. 8	·1134	10. 8	·00865			
6. 43	21. 50. 40		***	10. 24:	·00902			
7. 8	22. 1. 10	7. 45	·1110	11. 10:	·00855			
	***		***	11. 47	·00885			
7. 22	21. 57. 40	8. 30	·1152	12. 10	·00850			
7. 28	22. 3. 0	8. 35	·1142	12. 23	·00866			
7. 34	1. 25	8. 38	·1160	16 15:	·00835			
7. 39	3. 0	8. 44	·1099	23. 59	·00925			
7. 48	0. 40	8. 58	·1144					
7. 54	22. 2. 30	9. 16	·1042					
8. 8	21. 55. 35	9. 44	·1118					
8. 14	21. 56. 5		***					
8. 51	22. 3. 20	10. 10	·1118					
9. 13	21. 46. 50	10. 14	·1110					
9. 18	39. 50	10. 46	·1134					
9. 31	53. 5	11. 30	·1138					
9. 46	21. 51. 0	11. 52	·1162					
	***	12. 9	·1114					
10. 36	22. 5. 5	12. 46	·1150					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Greenwich Mean Solar Time.	Western Declination.
Dec. 6	
h m	° ′
10. 45	22. 4. 30
10. 53	22. 6. 0
11. 15	21. 59. 0
11. 46	22. 6. 0
11. 58	22. 0
12. 20	6. 0
12. 44	7. 20
12. 53	14. 0
13. 31	7. 10
13. 47	5. 15
15. 28	6. 50
15. 36	12. 0
15. 53	13. 0
16. 27	5. 35
16. 52	4. 0
17. 39	6. 40
20. 35	5. 10
23. 1	7. 30
23. 8	9. 40
23. 18	7. 25
23. 38	11. 0
23. 59	9. 0
Dec. 7	
0. 18	22. 9. 30
1. 38	6. 30
1. 54	8. 40
3. 31	6. 30
	(†)
10. 13	6. 15
11. 43	4. 40
12. 29	6. 30
13. 7	4. 0
13. 57	6. 50
14. 48	4. 40
15. 43	7. 0
17. 0	5. 0
17. 33	7. 30
18. 28	4. 50
18. 49	7. 0
19. 0	4. 30
22. 29	6. 50
23. 52	9. 0
Dec. 8	
0. 0	22. 10. 0
0. 46	9. 0
1. 28	11. 0
3. 13	7. 0
4. 48	6. 0
5. 32	7. 30
6. 31	22. 6. 0
7. 8	21. 56. 0

Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Index Error.
Dec. 6	
h m	
15. 10	·1135
13. 28	·1144
15. 15	·1143
18. 38	·1163
21. 30	·1168
23. 53	·1135
23. 59	·1140
Dec. 7	
0. 15	·1128
1. 8	·1149
3. 30	·1149
	(†)
10. 20	·1155
12. 0	·1158
12. 52	·1170
13. 35	·1157
15. 30	·1157
17. 0	·1167
17. 45	·1164
18. 10	·1169
21. 30	·1171
22. 45	·1160
	(†)
Dec. 8	
1. 30	·1160
3. 45	·1162
4. 15	·1167
6. 40	·1162
7. 0	·1140
7. 25	·1174
8. 18	·1160
9. 23	·1168

Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Index Error.
Dec. 7	
0. 45	·00920
3. 3	·00790
	·00825
6. 0	·00840
	·01040
7. 30:	·01002
8. 28:	·01020
9. 34	·00965
12. 30	·01065
16. 30	·01170
23. 51	·01615
Dec. 8	
0. 0	·01621
1. 30:	·01669
6. 0:	·01320
7. 0	·01260
7. 25	·01280
8. 0:	·01245
21. 0:	·01465
22. 0:	·01470

Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 7		
1. 40	51	·0 52 ·2
3. 40	52	·0 52 ·5
9. 56	51	·0 52 ·8
21. 40	47	·0 49 ·0
Dec. 8		
1. 40	48	·0 50 ·0
3. 40	50	·0 52 ·5
9. 40	48	·7 51 ·0
21. 40	46	·5 49 ·0

Greenwich Mean Solar Time.	Western Declination.
Dec. 8	
h m	° ′
7. 48	22. 5. 0
7. 55	4. 20
8. 54	6. 30
9. 57	4. 30
10. 16	5. 30
11. 30	4. 10
12. 0	5. 30
12. 14	8. 15
12. 34	3. 30
13. 16	5. 14
21. 39	6. 0
23. 30	8. 30
Dec. 9	
0. 15	22. 10. 0
3. 13	5. 15
7. 40	5. 40
8. 34	3. 15
9. 41	5. 30
12. 18	4. 0
13. 8	5. 50
14. 15	4. 5
14. 54	5. 0
23. 13	5. 30
23. 48	7. 0
Dec. 10	
0. 27	22. 7. 30
3. 3	4. 0
7. 58	4. 30
	(†)
9. 40	5. 15*
	(†)
23. 20	7. 15*
Dec. 11	
0. 28	22. 8. 0
2. 30	8. 0
3. 43	6. 30
4. 32	8. 0
5. 58	5. 30
11. 28	3. 15
11. 44	4. 30
12. 2	3. 35
16. 3	5. 0
21. 46	3. 0
23. 35	7. 0
Dec. 12	
0. 0	22. 7. 0
0. 57	7. 30
4. 24	5. 10
9. 39	4. 45
9. 55	4. 25
14. 17	6. 10
18. 27	2. 45

Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Index Error.
Dec. 8	
23. 30	·1170
23. 50	·1172
Dec. 9	
0. 0	·1172
7. 32	·1174
8. 10	·1168
8. 53	·1173
11. 34	·1174
15. 14	·1173
21. 5	·1187
23. 15	·1177
Dec. 10	
0. 0	·1173
4. 30	·1171
11. 35	·1183
20. 8	·1203
23. 30	·1183
23. 59	·1196
Dec. 11	
0. 15	·1198
21. 45	·1203
23. 18	·1180
23. 38	·1193
Dec. 12	
0. 0	·1188
1. 15	·1178
4. 34	·1177
7. 23	·1167
12. 34	·1192
12. 45	·1202
13. 44	·1194

Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Index Error.
Dec. 8	
23. 52	·01717
Dec. 9	
0. 15	·01535
2. 45:	·01510
7. 0:	·01170
11. 30	·01073
15. 30:	·01160
23. 44	·01582
Dec. 10	
0. 0	·01530
1. 45:	·01600
5. 25	·01520
	·01510
6. 15:	·01540
8. 25	·01535
	·01570
23. 46	·01450
Dec. 11	
0. 0	·01472
21. 15	·01470
23. 59	·01430
Dec. 12	
0. 15	·01430
2. 20:	·01350
7. 0:	·00760
11. 44	·00710
18. 0:	·00875
23. 59	·00935

Greenwich Mean Solar Time.	Readings of Thermometers.
Dec. 9	
1. 40	[illegible]
3. 40	[illegible]
9. 40	[illegible]
21. 40	[illegible]
Dec. 10	
1. 40	[illegible]
3. 40	[illegible]
9. 40	[illegible]
23. 20	[illegible]
Dec. 11	
0. 40	[illegible]
21. 40	[illegible]
Dec. 12	
1. 40	40 ·0 43 ·0
3. 40	43 ·4 44 ·8
9. 40	42 ·0 44 ·0
21. 40	[illegible]

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Dec. 12		Dec. 12						
h m	° ′ ″	h m		h m		h m	°	°
19. 25	22. 4. 0	19. 8	·1210					
20. 10	9. 0	20. 34	·1196					
20. 22	8. 30	20. 50	·1210					
20. 32	9. 30	23. 10	·1182					
20. 41	7. 30		***					
20. 51	8. 35							
21. 11	6. 30							
21. 44	9. 35							
22. 2	6. 35							
	***							
22. 40	9. 0							
23. 2	8. 0							
23. 21	10. 0							
23. 26	8. 30							
23. 35	11. 30							
23. 59	12. 0							
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
0. 20	22. 14. 0	0. 45	·1144	0. 15	·00920	1. 40	45 ·0	46 ·5
0. 53	17. 0	1. 14	·1159	0. 47	·00940	3. 40	46 ·0	47 ·0
1. 8	15. 0	1. 23	·1152	2. 28	·00850	9. 40	48 ·0	48 ·3
1. 18	19. 0	1. 44	·1165	2. 40	·00880	21. 40	44 ·0	45 ·5
1. 39	15. 0	2. 30	·1134	3. 40	·00695			
2. 22	24. 50	2. 43	·1168	3. 44	·00740			
2. 33	17. 0	2. 53	·1136	4. 20	·00770			
2. 43	25. 10	3. 0	·1149	5. 55	·00760			
2. 54	14. 30	3. 15	·1144	6. 27	·00792			
3. 2	15. 30	3. 38	·1156	7. 0:	·00740			
3. 7	12. 30	4. 0	·1142	8. 43	·00730			
3. 33	12. 30	5. 0	·1159		·00845			
3. 50	18. 0	5. 46	·1155	9. 45:	·00800			
4. 0	11. 30	6. 4	·1135	10. 55	·00810			
4. 11	10. 30	6. 27	·1176	11. 15:	·00766			
4. 18	12. 40	6. 50	·1175	12. 0	·00780			
4. 43	6. 30	7. 13	·1160	14. 0:	·00880			
5. 5	8. 35	7. 20	·1166	15. 30:	·00910			
5. 32	5. 30	7. 53	·1152	24. 35	·01215			
5. 45	22. 7. 0	8. 20	·1161					
6. 22	21. 38. 0	10. 0	·1162					
6. 33	48. 0	10. 28	·1170					
6. 57	56. 30	10. 40	·1168					
7. 17	53. 0	10. 53	·1187					
7. 34	57. 35	11. 20	·1162					
7. 55	21. 57. 30	11. 45	·1180					
8. 25	22. 3. 0	12. 15	·1160					
8. 40	1. 0	15. 8	·1174					
9. 57	3. 0	15. 27	·1169					
10. 13	1. 30	18. 30	·1182					
10. 42	3. 0	19. 25	·1175					
11. 0	11. 40	20. 0	·1184					
11. 33	5. 0	21. 38	·1184					
12. 29	3. 20	22. 30	·1173					
12. 45	5. 30		***					
13. 42	6. 0	23. 50	·1172					
13. 58	7. 45							
14. 16	6. 30							
14. 48	9. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 13								
h m	° ′ ″	h m		h m		h m	°	°
17. 2	22. 6. 0							
17. 33	5. 30							
19. 33	8. 0							
21. 14	5. 0							
23. 7	6. 0							
23. 40	8. 5							
Dec. 14		Dec. 14		Dec. 14		Dec. 14		
0. 0	22. 7. 30	0. 15	·1167	0. 7	·01225	1. 40	48 ·0	49 ·5
0. 19	7. 0	0. 55	·1164	1. 30:	·01200	3. 40	49 ·0	54 ·0
0. 30	8. 30	14. 53	·1188	4. 44	·00915	9. 40	46 ·0	48 ·0
5. 30	4. 30	19. 35	·1204		·01010	21. 40	41 ·0	44 ·8
10. 13	4. 45	21. 23	·1201	5. 10:	·01000			
10. 51	6. 30	23. 40	·1180	8. 40	·01160			
11. 41	5. 45	23. 59	·1181	12. 50	·01605			
12. 30	6. 30				·01565			
	(†)			20. 30:	·01450			
21. 40	5. 7*			23. 59	·01450			
	(†)							
Dec. 15		Dec. 15		Dec. 15		Dec. 15		
0. 35	22. 7. 10	0. 0	·1181	0. 20	·01468	1. 40	38 ·8	42 ·5
0. 58	6. 0	0. 50	·1185	8. 30:	·00990	3. 40	45 ·0	48 ·0
3. 3	6. 45	3. 25	·1179	14. 15	·00970	9. 40	42 ·8	43 ·5
5. 2	3. 20	5. 40	·1184	23. 59	·01250	21. 40	41 ·0	42 ·5
6. 20	3. 35	6. 9	·1178					
6. 36	5. 0	7. 30	·1186					
9. 35	22. 3. 5	10. 0	·1184					
9. 59	21. 54. 35	11. 20	·1169					
10. 28	22. 1. 30	12. 53	·1190					
11. 44	4. 0	13. 20	·1196					
12. 32	2. 40	13. 50	·1190					
13. 31	7. 0	17. 45	·1197					
13. 51	4. 30	18. 35	·1204					
14. 5	6. 30	20. 50	·1202					
15. 18	3. 0	21. 45	·1188					
15. 46	6. 25	23. 23	·1190					
16. 7	5. 0							
17. 19	5. 0							
18. 9	8. 30							
18. 37	6. 30							
20. 51	4. 35							
23. 7	5. 30							
23. 36	7. 45							
23. 58	7. 0							
Dec. 16		Dec. 16		Dec. 16		Dec. 16		
0. 7	22. 6. 10	0. 45	·1175	0. 5	·01260	1. 40	42 ·0	43 ·0
	***	1. 0	·1178	2. 0:	·01260	3. 40	44 ·0	47 ·0
0. 39	9. 30	1. 35	·1168	7. 0:	·00900	9. 40	41 ·0	42 ·7
	***	1. 58	·1170	12. 50	·01140	21. 40	38 ·0	39 ·3
1. 37	9. 10	2. 50	·1160	13. 15:	·01114			
	***	3. 45	·1162	15. 45:	·01260			
2. 8	11. 45		***	17. 55	·01330			
	***	5. 34	·1178	18. 30:	·01324			
3. 48	2. 45		***	21. 52	·01415			
4. 13	5. 30	8. 32	·1180	21. 57	·01390			
4. 44	5. 40	8. 47	·1174	23. 30	·01432			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Of V. F. Magnet.
Dec. 16		Dec. 16						
h m	° ′ ″	h m		m m		m m	°	°
5. 2	22. 4. 30	9. 30	·1186					
5. 25	6. 0	9. 58	·1178					
6. 17	4. 35	11. 20	·1186					
8. 33	4. 0	12. 38	·1186					
8. 57	0. 0	12. 50	·1195					
9. 3	22. 0. 30	13. 5	·1188					
9. 22	21. 55. 10	17. 45	·1188					
10. 10	22. 4. 0	18. 30	·1201					
12. 31	2. 45	19. 30	·1197					
12. 59	11. 15	20. 47	·1201					
13. 38	0. 0	23. 58	·1164					
14. 15	3. 45							
	***							
17. 32	5. 0							
17. 55	10. 50							
18. 44	3. 30							
21. 30	5. 0							
21. 57	3. 30							
22. 58	6. 0							
23. 17	5. 30							
23. 59	9. 30							
Dec. 17		Dec. 17		Dec. 17		Dec. 17		
1. 40	22. 11. 13*	1. 40	·1179*	0. 37	·01205	1. 40	41 ·0	42 ·2
3. 40	10. 49*	3. 40	·1175	4. 20	·01015	3. 40	42 ·0	42 ·2
9. 40	3. 5*	9. 40	·1191*	7. 45:	·00655	9. 40	42 ·0	43 ·0
23. 4	5. 33*	23. 4	·1195*	8. 30	·00625	23. 4	39 ·0	40 ·0
				10. 15:	·00528			
				12. 45	·00490			
				13. 0	·00450			
				20. 0:	·00635			
				23. 18	·00748			
Dec. 18		Dec. 18		Dec. 18		Dec. 18		
9. 6	22. 2. 37*	9. 6	·1204*	0. 0	·00796	9. 6	38 ·0	39 ·7
21. 40	4. 5*	21. 40	·1208*	3. 0:	·00915	21. 40	34 ·0	35 ·5
				5. 28	·00975			
				7. 0:	·00965			
				14. 45:	·01110			
				18. 45:	·01302			
				22. 24	·01400			
				22. 33	·01370			
				23. 59	·01386			
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
1. 51	22. 7. 15	1. 45	·1184	1. 0	·01360	1. 40	38 ·4	40 ·0
2. 32	7. 30		***	3. 30:	·01240	3. 40	36 ·5	42 ·0
2. 53	4. 45	3. 23	·1177	8. 0:	·00840	9. 40	40 ·8	42 ·2
4. 5	6. 30		***	12. 55	·00730	21. 40	39 ·5	42 ·2
4. 40	4. 50	6. 32	·1188	20. 0:	·00765			
6. 52	6. 0	7. 7	·1177	22. 10	·00732			
7. 15	1. 0	8. 26	·1186	23. 59	·00720			
7. 32	6. 15	9. 20	·1178					
7. 45	1. 0		***					
8. 1	2. 30	11. 8	·1189					
8. 17	0. 30	19. 30	·1205					
8. 36	4. 0	21. 4	·1200					
9. 42	3. 0	21. 20	·1204					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Of V. F. Magnet.
Dec. 19		Dec. 19						
h m	° ′ ″	h m		m m		m m	°	°
10. 14	22. 4. 0	22. 53	·1189					
10. 55	2. 45	23. 59	·1189					
11. 7	3. 20							
11. 21	1. 45							
12. 16	4. 0							
16. 0	6. 30							
20. 48	3. 35							
23. 9	4. 30							
23. 19	5. 50							
23. 48	5. 0							
23. 59	6. 0							
Dec. 20		Dec. 20		Dec. 20		Dec. 20		
0. 9	22. 7. 25	0. 5	·1185	1. 49	·00618	1. 40	[illegible]	42 ·3
1. 43	6. 0	2. 0	·1182	2. 0	·00585	[illegible]	[illegible]	[illegible]
2. 40	7. 15	3. 40	·1181	5. 15:	·00674	[illegible]	[illegible]	[illegible]
3. 32	6. 30	4. 53	·1156	6. 56	·00654	21. 40	[illegible]	[illegible]
3. 47	7. 0	6. 0	·1179		·00780			
4. 15	5. 30	6. 25	·1171	9. 45:	·00710			
4. 32	2. 0	9. 45	·1190	14. 15	·00710			
4. 49	4. 25	10. 4	·1188	20. 30:	·00790			
5. 8	2. 30	10. 17	·1191		***			
6. 37	3. 30	10. 28	·1186	23. 59	·00850			
6. 42	6. 30	10. 45	·1194					
6. 46	3. 30	13. 25	·1191					
7. 4	5. 0	13. 45	·1201					
7. 47	5. 35		***					
10. 13	4. 10	15. 40	·1182					
14. 2	4. 25	16. 20	·1196					
14. 47	1. 0		***					
	***	18. 30	·1202					
15. 47	2. 0	18. 55	·1204					
16. 10	3. 10	19. 30	·1201					
16. 28	1. 20	22. 8	·1206					
	***	23. 15	·1184					
17. 10	2. 30	23. 45	·1196					
17. 45	7. 30							
18. 0	8. 30							
18. 26	6. 10							
18. 37	7. 50							
21. 13	4. 50							
22. 33	5. 30							
22. 48	6. 30							
23. 6	6. 35							
23. 12	4. 30							
23. 59	9. 0							
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
0. 13	22. 7. 0	0. 10	·1180	0. 30	·00890	1. 40	[illegible]	[illegible]
	***	0. 30	·1192	0. 40	·00880	3. 40	[illegible]	[illegible]
0. 28	11. 30	0. 50	·1173	1. 15	·00870	9. 50	44 ·0	45 ·0
0. 40	7. 25	1. 25	·1159		***	21. 40	[illegible]	[illegible]
	***	1. 50	·1177	2. 33:	·00880			
1. 49	13. 0	2. 17	·1173		***			
2. 21	7. 0	2. 33	·1183	4. 13	·00740			
2. 35	12. 0	3. 40	·1176	4. 35	·00770			
	***	4. 8	·1182	4. 40	·00870			
3. 53	11. 0	4. 16	·1166	5. 8	·00850			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Dec. 17 and 18. The Photographic Traces for the Horizontal Force and Declination Magnets were too faint for use.

Göttingen Mean Solar Time.	Western Declination.
Dec. 21	
h m	° ′ ″
4. 9	22. 14. 30
4. 28	12. 10
4. 38	22. 14. 30
4. 58	21. 56. 10
5. 17	22. 5. 0
5. 56	9. 25
6. 44	7. 30
7. 10	10. 40
7. 36	8. 30
7. 51	22. 3. 30
8. 22	21. 31. 0
9. 7	22. 1. 0
9. 45	22. 2. 40
10. 14	21. 57. 0
10. 30:	22. 3. 0
10. 47	21. 58. 50
11. 8	22. 4. 40
11. 31	1. 10
12. 45	12. 0
12. 55	11. 15
13. 35	8. 0
14. 19	6. 0
14. 43	8. 0
15. 9	7. 0
15. 28	8. 30
16. 50	5. 30
17. 25	8. 30
18. 29	6. 25
20. 58	7. 25
21. 30	5. 30
23. 25	8. 30
23. 35	10. 30
Dec. 22	
0. 6	22. 10. 30
0. 35	7. 0
1. 5	9. 30
4. 40	8. 30
5. 20	3. 30
6. 3	7. 20
7. 0	5. 30
7. 32	7. 0
8. 2	5. 30
9. 30	22. 7. 0
12. 16	21. 59. 30
13. 8	22. 4. 30
14. 44	6. 30
15. 45	4. 30
17. 53	5. 30
18. 47	4. 45
19. 33	8. 10
20. 23	4. 35
21. 7	8. 0
23. 59	7. 0
Dec. 23	
0. 25	22. 8. 45
1. 7	7. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Dec. 21	
h m	
4. 46	·1132
5. 14	·1192
5. 24	·1185
5. 50	·1193
6. 30	·1184
7. 0	·1193
7. 20	·1173
	***
7. 38	·1182
	***
8. 3	·1157
8. 30	·1195
9. 13	·1175
10. 0	·1175
10. 20	·1199
10. 45	·1174
11. 0	·1188
11. 20	·1175
12. 20	·1182
12. 35	·1194
13. 46	·1185
19. 15	·1201
20. 30	·1194
	***
23. 10	·1190
Dec. 22	
0. 30	·1178
	***
9. 47	·1187
10. 7	·1173
10. 30	·1185
18. 45	·1197
19. 30	·1210
23. 59	·1192
Dec. 23	
0. 45	·1192
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Dec. 21	
h m	
6. 30:	·00810
	***
8. 45	·00895
10. 45	·00866
23. 45	·01440
Dec. 22	
0. 15	·01460
2. 0:	·01460
7. 45:	·01060
10. 0	·01020
16. 30:	·01035
19. 5:	·01090
21. 55	·01110
22. 45	·01145
23. 59	·01150
Dec. 23	
0. 30	·01150
3. 15:	·01030

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 22		
h m		
1. 40	42 ·0	43 ·0
3. 40	42 ·0	43 ·2
9. 40	44 ·0	45 ·0
21. 40	41 ·0	42 ·7
Dec. 23		
1. 40	44 ·0	44 ·5
3. 40	46 ·0	48 ·0

Göttingen Mean Solar Time.	Western Declination.
Dec. 23	
h m	° ′ ″
1. 37	22. 11. 0
1. 52	8. 25
3. 8	10. 30
3. 20	13. 0
3. 45	10. 0
3. 55	11. 0
4. 4	7. 50
	***
5. 2	8. 0
5. 20	5. 35
5. 43	7. 35
6. 43	4. 10
7. 14	7. 30
7. 42	22. 4. 0
8. 14	21. 49. 25
8. 47	22. 5. 0
9. 17	3. 5
10. 12	4. 10
10. 19	22. 7. 15
10. 53	21. 58. 15
11. 37	22. 7. 0
11. 47	5. 0
12. 17	4. 0
12. 32	9. 0
12. 51	4. 45
13. 33	0. 35
14. 17	22. 3. 30
14. 59	21. 59. 30
16. 2	22. 3. 30
16. 25	8. 30
17. 25	5. 30
17. 32	3. 0
18. 0	7. 10
	***
18. 47	4. 30
19. 0	6. 35
19. 25	5. 10
19. 44	6. 30
21. 49	6. 35
23. 8	10. 30
23. 59	9. 30
Dec. 24	
0. 18	22. 10. 0
3. 23	11. 0
3. 38	4. 0
3. 52	5. 30
4. 13	3. 10
4. 28	5. 40
	***
4. 49	0. 50
	***
5. 38	3. 0
5. 47	1. 30
6. 8	6. 35
6. 40	22. 7. 15
7. 8	21. 46. 20
7. 54	22. 2. 10

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Dec. 23	
h m	
2. 50	·1178
3. 38	·1170
3. 49	·1178
4. 0	·1167
4. 15	·1176
4. 42	·1166
5. 25	·1176
5. 50	·1180
	***
6. 40	·1173
7. 4	·1181
7. 58	·1170
8. 25	·1182
9. 4	·1170
9. 20	·1176
9. 50	·1165
10. 23	·1182
10. 47	·1163
11. 28	·1182
11. 45	·1173
12. 14	·1176
12. 27	·1192
12. 45	·1184
	***
13. 45	·1181
15. 5	·1193
	***
16. 25	·1176
18. 38	·1196
	***
23. 59	·1186
Dec. 24	
0. 0	·1186
2. 45	·1184
4. 15	·1182
4. 34	·1158
5. 15	·1174
5. 42	·1163
6. 23	·1182
6. 55	·1156
7. 25	·1198
8. 0	·1178
8. 25	·1186
9. 10	·1174
9. 30	·1192
10. 8	·1178
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Dec. 23	
h m	
6. 0	{·00736
	·00750
6. 44	·00730
6. 51	·00820
8. 0:	·00800
8. 40:	·00850
	***
11. 40	·00910
12. 25	·00920
13. 28	·00870
16. 0:	·00910
23. 50	·01310
Dec. 24	
0. 15	·01316
2. 0:	·01300
6. 33	{·00967
	·01030
8. 30:	·01032
14. 30:	·01202
19. 45	·01565
19. 53	·01540
23. 59	·01520

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 23		
h m		
9. 40	47 ·0	47 ·0
21. 40		44 ·0
Dec. 24		
1. 40	44 ·0	44 ·0
3. 40	46 ·0	47 ·5
9. 40	45 ·8	46 ·5
23. 20	39 ·5	42 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. unreduced for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. unreduced for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
Dec. 24		Dec. 24						
h. m.	° ′	h. m.						
8. 53	22. 3. 0	11. 38	·1182					
9. 3	5. 15	12. 23	·1180					
9. 17	2. 50	13. 28	·1195					
10. 0	7. 50	14. 8	·1174					
10. 27	3. 0							
11. 3	6. 0	14. 55	·1181					
11. 28	1. 0	15. 54	·1198					
11. 43	0. 50	17. 15	·1185					
12. 10	7. 0	19. 30	·1205					
12. 29	4. 50	20. 0	·1202					
12. 44	6. 10							
13. 44	6. 50	22. 0	·1210					
14. 10	9. 10	22. 38	·1198					
14. 44	6. 5	22. 44	·1204					
15. 22	8. 35	23. 50	·1202					
16. 8	8. 40							
16. 30	5. 30							
16. 43	7. 0							
17. 17	5. 35							
19. 4	7. 10							
19. 19	6. 5							
21. 0	10. 5							
21. 4	8. 0							
22. 10	9. 0							
22. 23	7. 20							
22. 46	9. 35							
23. 16	7. 35							
23. 47	8. 35							
Dec. 25		Dec. 25		Dec. 25		Dec. 25		
0. 30	22. 8. 0	0. 15	·1204	0. 0	·01518	10. 20	39 ·5	42 ·5
2. 0	7. 30	3. 4	·1180	1. 31	·01520	21. 40	34 ·0	36 ·5
2. 20	9. 0	4. 25	·1181	2. 20	·01560			
3. 30	5. 35	5. 3	·1193	3. 53	·01532			
4. 5	8. 0	6. 0	·1195	8. 45	·01315			
4. 30	5. 0	6. 38	·1190	12. 48	·01500			
4. 58	4. 35	7. 27	·1201		·01472			
5. 27	6. 30	8. 10	·1194	18. 47	·01417			
6. 44	22. 4. 0	9. 15	·1202	23. 59	·01458			
7. 0	21. 59. 30	10. 0	·1198					
7. 30	22. 4. 0	10. 55	·1201					
8. 0	6. 30	11. 16	·1227					
8. 17	4. 55	11. 30	·1215					
9. 7	4. 50	12. 10	·1201					
9. 44	6. 50	14. 0	·1195					
10. 23	6. 45	21. 45	·1217					
10. 33	4. 0	23. 59	·1204					
10. 53	4. 30							
11. 7	1. 30							
11. 20	5. 0							
11. 32	3. 15							
12. 0	7. 30							
12. 15	5. 0							
13. 7	3. 0							
13. 55	3. 30							
14. 2	6. 10							
15. 8	5. 25							
16. 2	8. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. unreduced for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. unreduced for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
Dec. 25								
h. m.	° ′							
16. 18	22. 6. 30							
18. 21	8. 0							
19. 12	7. 0							
21. 22	7. 35							
21. 51	8. 30							
23. 59	7. 30							
Dec. 26		Dec. 26		Dec. 26		Dec. 26		
0. 15	22. 7. 30	0. 0	·1204	0. 0	·01515	1. 40	41 ·0	47 ·5
4. 25	7. 0	4. 23	·1190	3. 0	·01510	3. 40	37 ·0	41 ·5
6. 16	8. 0			7. 30	·01500	9. 40	34 ·0	36 ·5
10. 45	4. 30	9. 45	·1194	12. 10	·00550	21. 40	39 ·0	42 ·5
12. 58	6. 0	20. 15	·1201	20. 40	·00540			
13. 17	4. 30	23. 59	·1192	23. 59	·00690			
14. 18	6. 30							
14. 57	5. 0							
16. 0	6. 20							
16. 58	7. 0							
17. 12	4. 50							
17. 25	7. 0							
17. 35	6. 0							
17. 48	7. 10							
22. 22	8. 0							
23. 33	7. 35							
		Dec. 27		Dec. 27		Dec. 27		
		1. 40	·1195	1. 0	·00730	1. 40	41 ·0	47 ·5
		3. 40	·1184	2. 45	·00720	3. 40	37 ·0	41 ·5
		9. 40	·1205	3. 24	·00670	9. 40	34 ·0	36 ·5
		21. 40	·1218	5. 0	·00840	21. 40	39 ·0	42 ·5
				8. 0	·00780			
				22. 5	·00740			
				23. 30	·01285			
					·01330			
		Dec. 28		Dec. 28		Dec. 28		
		3. 45	·1185	2. 30	·01330	1. 40	41 ·0	47 ·5
				5. 57	·01075	3. 40	43 ·5	44 ·5
		8. 30	·1184		·01040	9. 40	39 ·0	42 ·5
		9. 45	·1198	6. 0	·01038	21. 40	37 ·0	38 ·5
		12. 55	·1196	10. 0	·01140			
		13. 8	·1205	13. 45	·01320			
		13. 47	·1193	14. 30	·01320			
		14. 16	·1215	17. 57	·01600			
		15. 45	·1199	18. 6	·01570			
				23. 38	·01535			
		19. 15	·1224					
		21. 40	·1196					
		Dec. 29		Dec. 29		Dec. 29		
		0. 50	·1198	0. 0	·01602	1. 40	41 ·0	47 ·5
		1. 45	·1205	2. 0	·01474	3. 40	43 ·5	44 ·5
				5. 30	·00980	9. 40	39 ·0	42 ·5
		5. 0	·1187	7. 20	·00897	21. 40	36 ·5	38 ·0
				7. 40	·00960			
		6. 35	·1192	9. 30	·01060			
		6. 58	·1187	15. 40	·01360			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Dec. 27. The adjustments of the Declination Magnet were under examination from this time to the end of the year. The Photographic Trace for the Horizontal Force Magnet was too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Dec. 29 h m		Dec. 29 h m		h m	°	°
		7. 30	·1202	16. 40	·01580			
		12. 30	·1194		·01552			
		14. 50	·1212	20. 30:	·01540			
		20. 5	·1222	23. 35	·01354			
		23. 59	·1204					
		Dec. 30		Dec. 30		Dec. 30		
		0. 0	·1204	0. 40	·01335	1. 40	39 ·5	43 ·0
		1. 15	·1211	5. 8	·00730	3. 40	41 ·5	45 ·0
		4. 45	·1196	5. 18	·00744	9. 40	41 ·0	43 ·5
		7. 30	·1202	8. 0:	·00680	21. 40	34 ·5	38 ·0
		9. 45	·1196	10. 55	·00780			
		11. 6	·1223	11. 10	·00770			
		11. 48	·1200	14. 45:	·01005			
		17. 0	·1216	20. 55	·01530			
		17. 30	·1212	21. 4	·01505			
		18. 16	·1228	23. 32	·01566			
		19. 5	·1228		·01575			
		22. 40	·1204					
		23. 25	·1208					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected or Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Dec. 31 h m		Dec. 31 h m		Dec. 31 h m	°	°
		0. 20	·1206	0. 10	·01570	1. 40	38 ·0	42 ·0
		3. 15	·1192	1. 30:	·01490	3. 40	42 ·0	44 ·8
		4. 23	·1201	6. 0:	·00765	9. 40	36 ·0	39 ·0
		5. 30	·1200	6. 55	·00770	23. 25	38 ·0	42 ·5
		6. 0	·1181	7. 4	·00820			
		8. 4	·1209	7. 50:	·00795			
		10. 45	·1206	10. 50	·00890			
		11. 9	·1200	11. 0:	·00890			
		12. 37	·1208	15. 45:	·01055			
		13. 5	·1221	21. 0:	·01365			
		13. 32	·1211	21. 30:	·01380			
		15. 20	·1220	23. 30	·01505			
		17. 37	·1215					
		19. 45	·1225					
		21. 40	·1220					
		22. 10	·1210					
		23. 25	·1206					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1853.

The Dipping Needle is described, and the mode of using it is explained, in the *Magnetical and Meteorological Observations*, 1847, Introduction, page xliii, and in the corresponding parts of several preceding Volumes.

The needle A 1 was used throughout the Year.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1853.

Day and Approximate Hour, 1853.		Magnetic Dip.	Day and Approximate Hour, 1853.		Magnetic Dip.	Day and Approximate Hour, 1853.		Magnetic Dip.
	d h	° ′		d h	° ′		d h	° ′
January	9. 21	68. 41 ·25	May	2. 9	68. 49 ·00	August	28. 21	68. 43 ·75
	10. 3	68. 41 ·25		8. 21	68. 46 ·25		29. 3	68. 43 ·75
	10. 9	68. 40 ·50		9. 3	68. 46 ·50		29. 9	68. 45 ·50
	16. 21	68. 47 ·75		9. 9	68. 47 ·50			
	17. 3	68. 43 ·25		15. 21	68. 43 ·25	September	4. 21	68. 41 ·75
	17. 9	68. 45 ·75		16. 3	68. 44 ·25		5. 3	68. 39 ·25
	23. 21	68. 35 ·00		16. 9	68. 45 ·00		5. 9	68. 44 ·25
	24. 3	68. 49 ·75		22. 21	68. 43 ·00		11. 21	68. 38 ·25
	24. 9	68. 43 ·25		23. 3	68. 41 ·75		12. 3	68. 40 ·50
	30. 21	68. 53 ·00		23. 9	68. 41 ·75		12. 9	68. 40 ·00
	31. 3	68. 49 ·25		29. 21	68. 41 ·50		18. 21	68. 43 ·00
	31. 9	68. 45 ·25		30. 3	68. 41 ·75		19. 3	68. 43 ·00
				30. 9	68. 41 ·75		19. 9	68. 43 ·00
February	6. 21	68. 51 ·25						
	7. 3	68. 48 ·00	June	5. 21	68. 41 ·75	October	3. 21	68. 42 ·25
	7. 9	68. 46 ·75		6. 3	68. 41 ·50		4. 3	68. 44 ·00
	13. 21	68. 52 ·75		6. 9	68. 41 ·75		4. 9	68. 43 ·00
	14. 3	68. 50 ·00		19. 21	68. 43 ·00		23. 21	68. 43 ·75
	14. 9	68. 46 ·25		20. 3	68. 45 ·50		24. 3	68. 44 ·25
	20. 21	68. 49 ·50		20. 9	68. 43 ·75		24. 9	68. 43 ·00
	21. 3	68. 47 ·50		26. 21	68. 46 ·50		30. 21	68. 45 ·00
	21. 9	68. 47 ·25		27. 3	68. 46 ·25		31. 3	68. 43 ·75
	27. 21	68. 48 ·75		27. 9	68. 45 ·50		31. 9	68. 44 ·50
	28. 3	68. 49 ·25						
	28. 9	68. 45 ·50	July	3. 21	68. 38 ·00	November	6. 21	68. 41 ·25
				4. 3	68. 41 ·50		7. 3	68. 45 ·00
March	6. 21	68. 48 ·00		4. 9	68. 43 ·75		7. 9	68. 46 ·75
	7. 3	68. 49 ·00		7. 23	68. 42 ·50		13. 21	68. 46 ·75
	7. 9	68. 45 ·25		10. 21	68. 35 ·50		14. 3	68. 46 ·25
	13. 21	68. 44 ·25		11. 3	68. 41 ·50		14. 9	68. 46 ·25
	20. 21	68. 45 ·00		11. 9	68. 40 ·50		20. 21	68. 45 ·50
	21. 3	68. 46 ·00		17. 21	68. 43 ·00		21. 3	68. 46 ·25
	21. 9	68. 46 ·50		18. 3	68. 46 ·25		21. 9	68. 46 ·75
	27. 21	68. 47 ·50		18. 9	68. 41 ·25		27. 21	68. 49 ·25
	28. 3	68. 49 ·25		24. 21	68. 43 ·00		21. 3	68. 52 ·50
	28. 9	68. 43 ·75		25. 3	68. 43 ·75		28. 9	68. 50 ·00
				25. 9	68. 43 ·75			
April	3. 21	68. 41 ·75				December	4. 21	68. 42 ·25
	4. 3	68. 42 ·25	August	0. 21	68. 41 ·75		5. 3	68. 42 ·50
	4. 9	68. 41 ·50		1. 3	68. 40 ·50		5. 9	68. 40 ·50
	10. 21	68. 46 ·75		1. 9	68. 40 ·00		11. 21	68. 44 ·50
	11. 3	68. 49 ·50		7. 21	68. 42 ·00		12. 3	68. 46 ·75
	11. 9	68. 48 ·00		8. 3	68. 41 ·75		12. 9	68. 46 ·25
	17. 21	68. 48 ·00		8. 9	68. 41 ·50		18. 21	68. 46 ·50
	18. 3	68. 48 ·00		14. 21	68. 41 ·75		19. 3	68. 45 ·50
	18. 9	68. 48 ·00		15. 9	68. 43 ·00		19. 9	68. 45 ·50
				21. 21	68. 41 ·25		25. 21	68. 49 ·25
May	1. 21	68. 48 ·50		22. 3	68. 40 ·00		26. 3	68. 49 ·25
	2. 3	68. 47 ·50		22. 9	68. 40 ·00		26. 9	68. 46 ·75

MEAN MONTHLY MAGNETIC DIP, at the ROYAL OBSERVATORY, GREENWICH, in the Year 1853.

1853. Month.	Mean Monthly Dip at 21h.	Number of Observations.	Mean Monthly Dip at 3h.	Number of Observations.	Mean Monthly Dip at 9h.	Number of Observations.
	° ′		° ′		° ′	
January	68. 44 ·25	4	68. 45 ·88	4	68. 43 ·69	4
February	68. 50 ·56	4	68. 48 ·69	4	68. 46 ·44	4
March	68. 46 ·19	4	68. 48 ·08	3	68. 45 ·17	3
April	68. 45 ·50	3	68. 46 ·58	3	68. 45 ·83	3
May	68. 44 ·50	5	68. 44 ·35	5	68. 45 ·00	5
June	68. 43 ·75	3	68. 44 ·42	3	68. 43 ·67	3
July	68. 40 ·40	5	68. 43 ·31	4	68. 42 ·31	4
August	68. 42 ·10	5	68. 41 ·31	4	68. 41 ·12	4
September	68. 41 ·00	3	68. 40 ·92	3	68. 42 ·42	3
October	68. 43 ·67	3	68. 44 ·00	3	68. 43 ·50	3
November	68. 45 ·69	4	68. 47 ·50	4	68. 47 ·44	4
December	68. 45 ·62	4	68. 46 ·00	4	68. 44 ·75	4
Mean	68. 44 ·40	47	68. 45 ·09	44	68. 44 ·28	44

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1853.

The Apparatus used for observation of the Deflexion of a Magnet is described, and the method of computing the results is explained, in the Greenwich *Magnetical and Meteorological Observations*, 1847, Introduction, page xlv, and in preceding Volumes. The Magnet, marked $\frac{D}{XX}$ (the same which was used in preceding years), has been employed to produce the deflexion of another magnet, marked $\frac{H}{23}$ (of nearly the same dimensions): and the vibrations then observed are those of $\frac{D}{XX}$.

The following is the explanation of the notation used:—

m = the magnetic moment of the deflecting magnet $\frac{D}{XX}$.

X = the absolute measure of horizontal magnetic force.

K = the moment of inertia of $\frac{D}{XX}$ with its stirrup and pulley as suspended for vibration = 3·92866: the unit of length being the English foot, and the unit of weight being the English grain.

T = the time of vibration in seconds of mean solar time.

Then when the natural sine of the observed deflexion (the Deflecting Magnet being in the Lateral Position) is expressed by the formula

$$\frac{a}{(\text{distance})^3} + \frac{b}{(\text{distance})^5}$$

we have for the formulæ of computation

$$\frac{m}{X} = \tfrac{1}{2} a$$

$$m X = \frac{\pi^2 K}{T^2}$$

from which m and X are found.

The natural sine of the observed deflexion when the Deflecting Magnet is in the Axial Position is treated in the same manner as the former, for expressing it by the formula

$$\frac{a_1}{(\text{distance})^3} + \frac{b_1}{(\text{distance})^5}$$

but no further use is made of these deflexions.

For the determination of the Absolute Measure of Horizontal Force on those days on which Vibrations, unaccompanied by Deflexions, were observed: it is assumed that the quantity m (which is peculiar to the magnet) changes at a uniform rate from one observation of deflexion to the next; and the comparison of its interpolated value with the value of $m X$ given by the vibration determines the value of X.

Abstract of the Observations of Deflexion of a Magnet for Absolute Measure of Horizontal Force.

Month and Day, 1853.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distances of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibrations of Deflecting Magnet.	Number of Vibrations.	Temperature.
January 30	Lateral	1. 0	41·0	11. 37. 36·40	5·148	100	35·0
	Axial.....			6. 27. 16·99			
	Lateral	1. 6		3. 26. 18·65			
	Axial.....			1. 45. 13·43	5·148	100	47·2
April 27	Lateral	1. 0	53·0	11. 38. 25·95	5·155	100	50·6
	Axial.....			6. 26. 51·79			
	Lateral	1. 6		3. 26. 23·46			
	Axial.....			1. 45. 3·15	5·156	100	54·5
May 27	Lateral	1. 0	77·1	11. 34. 38·76	5·193	100	73·5
	Axial.....			6. 24. 47·37			
	Lateral	1. 6		3. 24. 57·31			
	Axial.....			1. 43. 32·78	5·192	100	76·0

Observations for Deflexion were made during the remainder of the year, but they were evidently erroneous, and in September the apparatus was taken down for repair and adjustment.

Computation of the Values of Absolute Measure of Horizontal Force.

Month and Day, 1853.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a_1.	Apparent Value of b_1.	Adopted Value of a, assuming the Mean Value of b as applicable to all.	Log. $\frac{1}{2}a = \text{Log.}\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. m X.	Value of X.	Value of m.
January 30	+0·20311	−0·00258	−0·00154	0·09598	0·01644	+0·20308	9·00664	5·148	0·16526	3·796	0·385
April 27	+0·20309	−0·00132		0·09578	0·01652	+0·20327	9·00706	5·154	0·16416	3·788	0·385
May 27	+0·20140	−0·00071		0·09359	0·01758	+0·20213	9·00462	5·192	0·15778	3·772	0·381

Values of Absolute Measure of Horizontal Force, from Observations of Vibration of the Deflecting Magnet $\frac{D}{XX'}$, unaccompanied by Deflexion.

Month and Day, 1853.	Adopted time of Vibration.	Temperature.	Log. m X.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.
January 26	5·152	38·0	0·16458	0·385	3·794
28	5·152	38·9	0·16458	0·385	3·794
February 7	5·140	42·0	0·16661	0·385	3·812
March 1	5·150	34·0	0·16492	0·385	3·797
11	5·153	49·8	0·16442	0·385	3·793
26	5·150	42·5	0·16492	0·385	3·797
30	5·154	53·5	0·16425	0·385	3·791
April 9	5·155	45·0	0·16408	0·385	3·790
19	5·153	54·0	0·16442	0·385	3·793
May 16	5·177	66·2	0·16038	0·383	3·777
21	5·175	65·0	0·16072	0·382	3·790
June 15	5·190	67·7	0·15821	0·381	3·778
23	5·193	68·0	0·15770	0·381	3·773

The number of vibrations employed in each determination was 100.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1853.

The day in the first column of the following tables is to be understood, generally, as defined in civil reckoning.

The barometer is described in the *Greenwich Magnetical and Meteorological Observations*, 1847, Introduction, page xlviii, and in the corresponding parts of several preceding volumes. The barometer has been read at 21^h, 0^h, 3^h, 9^h (Astronomical), on every day, excepting on Sundays, and on Good Friday and Christmas Day, on which days a smaller number of observations has been taken. Every reading has been reduced to the reading which would have been obtained at the temperature 32° of the mercury and scale, by application of the correction given in table II. (pages 82 to 87) of the Report of the Committee of Physics of the Royal Society. The mean of the reduced readings has then been taken for each civil day, and finally converted into mean daily reading by application of the correction inferred from Mr. Glaisher's paper in the *Philosophical Transactions*, 1848, part I.

The positions of all the thermometers are described in the Introduction, 1847, page lxix.

The thermometers used for determining the highest temperature of the air, and the highest state of the wet-bulb thermometer, are mercurial thermometers invented by Messrs. Negretti and Zambra, and described in the volume for 1851; and those for the lowest are of Rutherford's construction, described in the Introduction, 1847, page lxvii: they are self-registering. The readings given are corrected for index-errors.

The dry-bulb and wet-bulb thermometers are described in the Introduction, 1847, page xlix; their scales have been verified from time to time, in the manner there described.

A mean daily reading of the dry thermometer is inferred from the mean of observations taken at the same hours as the observations of the barometer, corrected by a quantity given in the *Phil. Trans.*, 1848, part I. Another mean daily reading is inferred from the mean of the maximum and minimum thermometers, also corrected by a small quantity given in the same paper. The mean daily value given in the tables is found by combining these two corrected means, giving them weights proportional to the number of observations from which they are respectively derived.

The dew-point has been inferred exclusively from simultaneous observations of the dry-bulb and wet-bulb thermometers. In order to find the difference between the dry-bulb reading and the dew-point, the difference between the dry-bulb and the wet-bulb readings has been multiplied by a factor taken from the following table (deduced by Mr. Glaisher from the comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, to the end of the year 1844).

TABLE OF FACTORS, BY WHICH THE DIFFERENCE OF READINGS OF THE DRY-BULB AND WET-BULB THERMOMETERS IS TO BE MULTIPLIED, IN ORDER TO PRODUCE THE DIFFERENCE BETWEEN THE READINGS OF THE DRY-BULB AND DEW-POINT THERMOMETERS.

Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.
°		°		°		°		°		°	
20	8·5	32	3·1	44	2·3	56	1·9	68	1·6	80	1·5
21	8·5	33	2·8	45	2·3	57	1·9	69	1·5	81	1·5
22	8·5	34	2·6	46	2·3	58	1·9	70	1·5	82	1·5
23	8·5	35	2·6	47	2·2	59	1·8	71	1·5	83	1·5
24	7·3	36	2·6	48	2·2	60	1·8	72	1·5	84	1·5
25	6·4	37	2·5	49	2·2	61	1·8	73	1·5	85	1·5
26	6·1	38	2·5	50	2·1	62	1·7	74	1·5	86	1·5
27	6·1	39	2·5	51	2·1	63	1·7	75	1·5	87	1·5
28	5·7	40	2·4	52	2·0	64	1·7	76	1·5	88	1·5
29	5·0	41	2·4	53	2·0	65	1·6	77	1·5	89	1·5
30	4·6	42	2·4	54	2·0	66	1·6	78	1·5	90	1·5
31	3·7	43	2·4	55	2·0	67	1·6	79	1·5		

The dew-point being thus found for each individual observation, the mean is taken for each day (as defined from midnight to midnight), and this mean is corrected by application of the elements in the *Phil. Trans.*, 1848, part I.

The thermometers exhibiting the lowest temperature on the grass, and the highest and lowest temperatures of the water of the Thames, are described in the Introduction, 1847, pages lxix and lxxi. They are occasionally verified. They are read at 21^h (9^h A.M.) every day: their readings are placed opposite to the day preceding the civil day on which the scales are actually read. The thermometer for the highest temperature in the sunshine is a mercurial thermometer with blackened bulb, of Negretti and Zambra's construction: it is read at 9^h P.M. every evening.

The thermometer for the maximum temperature of the water of the Thames was out of order till January 12, and from November 6 to December 4. That for the minimum temperature was out of order from April 2 to May 3; July 3 to 10; July 29 to October 3, and from October 17 to 26.

The mean daily value of the difference between dew-point temperature and air-temperature is the difference between the two numbers in the sixth and seventh columns. The Greatest and Least are the greatest and least among the differences corresponding to the times of observation in the civil day, or they are found from the absolute maxima and minima, as determined by comparing the observations of the self-registering wet-bulb thermometers with those of the self-registering dry-bulb thermometers.

The difference between the mean temperature for the day and the mean for the same day of the year on an average of thirty-eight years, is found by comparison with a table of results deduced by Mr. Glaisher from thirty-eight years' observations, made at the Royal Observatory, ending 1851.

Osler's Anemometer is described in the Introduction, 1847, page lxxi. Little explanation of the results deduced from it appears to be necessary. In the columns of direction, the letter C is occasionally used for Calm. It may be understood generally that the greatest pressure occurred in gusts of short duration.

Whewell's Anemometer is described in the Introduction, 1847, page lxxii. The amount of movement of air here exhibited is to be understood as from 22^h to 22^h (10^h A.M. to 10^h A.M.), the numbers being placed opposite to the day preceding the civil day on which the instrument is read.

The register of rain is read at 9^h P.M. from Crosley's Rain-gauge, described in page lxxv of the Introduction, 1847. If, however, there appears to be any doubt as to the correctness of the results, reference is made to the Rain-guage No. 2, described in the same place.

For understanding the divisions of time under the heads of Electricity and Weather, the following remarks are necessary :—The day is divided by columns into two parts (from midnight to noon, and from noon to midnight), and each of these parts is roughly subdivided into two or three parts by colons (:). Thus, when there is a single colon in the first column, it denotes that the remarks before it apply (roughly) to the interval from midnight to 6 A.M., and those following it to the interval from 6 A.M. to noon. When there are two colons in the first column, it is to be understood that the twelve hours are divided into three nearly equal parts of four hours each. And similarly for the second column.

The Electrical Apparatus is described in page lxxvii of the Introduction, 1847. The following is the explanation of the notation employed, it being premised that the quality of the Electricity is always to be supposed positive when no indication of quality is given :—

g cur. denotes *galvanic currents*	N denotes *negative*	s denotes *strong*	v denotes *variable*
m .. *moderate*	P .. *positive*	sp .. *sparks*	w .. *weak*

The duplication of the letter denotes an intensity of the modification described : thus, s s is very strong ; v v, very variable.

The Clouds and Weather are described generally by Howard's Nomenclature ; the figure denotes the proportion of sky covered by clouds, the whole sky being represented by 10. The notation is as follows :—

a denotes *aurora borealis*	hl denotes *hail*	h-r denotes *heavy rain*	h-sqs denotes *heavy squalls*
ci .. *cirrus*	so-ha .. *solar halo*	c-h-r .. *continued heavy rain*	fr-h-sqs .. *frequent heavy squalls*
ci-cu .. *cirro-cumulus*	l .. *lightning*	m-r .. *misty rain*	sc .. *scud*
ci-s .. *cirro-stratus*	li-cl .. *light clouds*	fr-m-r .. *frequent misty rain*	li-sc .. *light scud*
cu .. *cumulus*	lu-co .. *lunar corona*	sl-r .. *slight rain*	sl .. *sleet*
cu-s .. *cumulo-stratus*	lu-ha .. *lunar halo*	h-sh .. *heavy showers*	sn .. *snow*
d .. *dew*	m .. *meteor*	fr-shs .. *frequent showers*	sl-sn .. *slight snow*
h-d .. *heavy dew*	ms .. *meteors*	fr-h-shs .. *frequent heavy showers*	s .. *stratus*
f .. *fog*	n .. *nimbus*	li-shs .. *light showers*	t .. *thunder*
th-f .. *thick-fog*	r .. *rain*	oc-shs .. *occasional showers*	t-s .. *thunder storm*
fr .. *frost*	th-r .. *thin rain*	sq .. *squall*	v .. *variable*
h-fr .. *hoar frost*	oc-r .. *occasional rain*	sqs .. *squalls*	w .. *wind*
h .. *haze*	fr-r .. *frozen rain*	fr-sqs .. *frequent squalls*	st-w .. *strong wind*

Observations of special character are reserved for the pages following the tabular arrangement.

MONTH and DAY, 1853.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 35 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles	in.
Jan. 1	..	29·895	51·8	45·8	49·1	42·7	55·0	39·0	..	42·8	6·4	7·6	5·5	+12·2	SW	....	..	..	..	180	0·00
2	Last Quarter In Equator.	29·693	51·5	47·8	48·9	43·0	52·5	43·0	..	44·2	5·9	7·4	4·0	+12·6	SSW	SSW	..	..	..	130	0·03
3	..	29·665	50·2	36·8	43·7	37·9	51·0	43·8	..	44·8	5·8	8·1	3·9	+ 7·7	S	S	..	..	..	145	0·14
4	..	29·473	51·7	37·5	47·0	41·5	52·2	30·5	..	44·6	5·5	7·0	2·3	+11·3	S	SSW	7·0	0·0	3·2	230	0·04
5	..	29·560	51·9	40·7	45·2	38·5	54·0	35·6	..	45·0	6·7	7·6	5·8	+ 9·7	SW	SW	2·5	0·0	0·2	105	0·04
6	Perigee	29·502	49·7	37·3	42·5	37·0	51·0	32·3	..	44·1	5·5	8·6	2·4	+ 7·2	S	S	12·0	0·0	1·5	170	0·24
7	..	29·151	53·4	36·8	46·5	42·3	52·5	30·8	..	43·6	4·2	5·8	3·7	+11·4	SSE	SW	6·0	0·0	1·0	125	0·22
8	..	29·350	50·0	37·1	43·2	36·4	53·0	30·3	..	42·5	6·8	8·3	5·8	+ 8·3	SW	SW	0·0	0·0	0·0	65	0·00
9	Greatest Dec. S New	29·608	50·0	36·5	42·7	35·1	53·9	30·5	..	41·7	7·6	..	3·8	+ 7·7	SW	SW; S	2·0	0·0	0·1	115	0·00
10	..	29·390	52·4	40·5	47·0	42·4	52·7	30·8	..	40·7	4·6	5·7	4·4	+11·9	S; SSE	SSE; SW	4·0	0·0	0·6	230	0·11
11	..	29·480	51·0	42·3	45·5	39·6	53·0	37·2	..	42·7	5·9	12·5	4·8	+10·3	SW	SW	7·5	0·5	2·7	180	0·06
12	..	29·407	53·8	43·2	49·7	42·4	54·6	39·8	..	43·5	7·3	8·6	5·7	+14·4	SW	SW	9·6	0·0	2·5	240	0·06
13	..	29·244	52·0	40·8	44·8	36·3	56·0	36·9	..	43·9	8·5	11·0	7·1	+ 9·3	SW	SW	3·5	0·0	0·5	140	0·09
14	..	29·674	46·4	37·7	41·4	33·0	49·0	31·0	..	43·8	8·4	11·0	4·3	+ 5·7	NW; W	W	1·5	0·0	0·0	60	0·00
15	In Equator	29·295	47·8	37·9	43·9	37·0	50·7	32·0	..	43·0	6·9	9·4	5·1	+ 8·1	Calm; S	SW	9·5	0·0	1·5	235	0·13
16	..	29·085	45·5	36·7	40·4	38·0	46·3	31·1	..	42·1	2·4	5·8	0·0	+ 4·4	SW	Calm	0·0	0·0	0·0	45	0·30
17	First Qr.	29·201	42·2	36·3	38·8	31·0	47·0	30·7	..	41·6	7·8	9·0	3·9	+ 2·6	N	NW	5·0	0·0	1·4	185	0·03
18	Apogee	29·770	44·5	32·0	37·5	31·5	48·0	30·0	..	39·5	6·0	9·1	3·0	+ 1·1	NW	N; Calm	4·0	0·0	0·5	30	0·00
19	..	29·844	50·0	30·8	43·7	39·3	52·3	26·7	..	39·3	4·4	6·4	3·0	+ 7·2	S	S	5·0	0·0	0·6	200	0·01
20	..	29·557	55·5	43·1	49·6	40·8	58·5	32·7	..	40·3	8·8	17·8	3·1	+12·9	SW	SW	5·5	0·0	1·8	100	0·08
21	..	29·293	49·2	39·3	44·2	37·5	53·2	36·2	..	41·7	6·7	9·9	3·7	+ 7·4	Calm	SW	4·0	0·0	0·3	130	0·17
22	..	29·526	43·2	34·8	38·9	29·9	45·9	28·0	..	41·7	9·0	10·1	6·5	+ 2·1	W	NW	5·0	0·0	1·3	150	0·00
23	Greatest Declination N	29·926	43·0	35·2	38·6	30·3	46·0	26·0	43·2	40·3	8·3	10·8	6·2	+ 1·7	N	N	5·0	0·0	1·4	95	0·00
24	..	30·022	41·8	34·2	37·9	33·4	43·7	29·2	42·2	39·8	4·5	10·3	3·8	+ 0·9	NNE	Calm	0·0	0·0	0·0	0	0·00
25	Full	29·626	42·0	34·8	37·4	31·4	47·0	32·8	40·9	39·5	6·0	9·6	2·9	+ 0·3	Calm	Calm	0·0	0·0	0·0	10	0·00
26	..	29·576	41·7	33·3	36·2	30·7	48·3	31·0	40·1	39·1	5·5	9·1	3·6	− 1·0	Calm	NE	0·0	0·0	0·0	15	0·00
27	..	29·676	39·9	30·9	36·0	31·3	42·7	22·0	39·5	39·1	4·7	7·0	3·8	− 1·3	NE	NE	0·0	0·0	0·0	75	0·01
28	..	29·683	42·8	36·5	39·2	33·4	45·0	32·0	39·2	38·9	5·8	7·2	3·9	+ 1·9	NE	NNE	0·0	0·0	0·0	95	0·06
29	..	29·739	41·0	37·1	38·4	32·4	44·6	36·2	39·3	39·3	6·0	6·7	6·0	+ 1·0	NNE	Calm	0·0	0·0	0·0	30	0·00
30	In Equator	29·673	43·7	34·6	39·1	33·8	46·0	35·2	39·7	39·7	5·3	7·2	3·6	+ 1·6	SW	SW	0·0	0·0	0·0	60	0·06
31	..	30·085	47·0	32·7	38·5	32·7	49·0	23·0	40·1	39·9	5·8	8·7	0·0	+ 0·8	Calm	Calm	0·0	0·0	0·0	0	0·07
Feb. 1	Last Qr.	30·090	37·2	26·6	31·6	29·2	42·0	22·5	40·3	40·3	2·4	3·4	0·0	− 6·1	Calm	Calm	0·0	0·0	0·0	5	0·00
2	Perigee	29·978	44·3	28·7	35·8	30·6	47·0	23·5	39·9	39·9	5·2	9·4	2·8	− 2·0	Calm	SE	0·0	0·0	0·0	35	0·01
3	..	29·511	39·0	34·0	36·8	30·0	40·5	30·0	39·8	39·8	6·8	9·0	5·3	− 1·0	SE	ESE	0·0	0·0	0·0	45	0·00
4	..	29·454	42·9	34·8	37·0	32·0	45·0	30·7	39·8	39·8	5·0	8·4	3·1	− 0·9	NE	N by E	0·0	0·0	0·0	85	0·06
5	Greatest Declination S.	29·685	42·1	32·5	36·4	31·9	44·0	33·0	39·8	39·8	4·5	7·5	2·6	− 1·6	N by E; NE	NE	0·0	0·0	0·0	40	0·00
6	..	29·655	40·3	35·7	37·3	31·7	47·0	31·0	39·7	39·7	5·6	8·5	4·4	− 0·8	Calm	Calm	0·0	0·0	0·0	30	0·00
7	..	29·359	42·0	35·3	38·8	30·0	49·0	30·3	39·8	39·8	8·8	11·3	6·8	+ 0·6	W S	S	0·0	0·0	0·0	100	0·00
8	New	29·075	40·0	29·2	33·5	27·8	43·5	34·5	39·7	39·7	5·7	8·8	3·5	− 4·8	SE	SE	0·0	0·0	0·0	60	0·00
9	..	28·900	42·5	29·1	36·4	30·2	47·8	22·8	39·7	39·7	6·2	10·8	4·8	− 1·9	E	NE	3·0	0·0	0·2	100	0·00
10	..	29·062	38·0	32·6	34·3	30·9	44·0	32·4	39·3	39·3	3·4	6·4	3·1	− 4·1	NNE	N	1·8	0·0	0·3	145	0·05
11	..	29·234	38·7	30·0	32·4	28·0	43·4	29·5	39·2	38·6	4·4	8·1	3·3	− 6·1	N	N	1·0	0·0	0·1	130	0·01
12	In Equator	29·293	35·0	28·5	30·7	25·5	40·0	29·0	39·1	37·7	5·2	7·1	3·7	− 8·1	NNE	NE	2·4	0·0	0·4	55	0·00
13	..	29·529	36·1	29·2	30·7	26·7	40·0	26·0	38·7	36·8	4·0	5·2	3·4	− 8·0	NE	NE	1·5	0·0	0·0	60	0·20
14	..	29·698	34·0	28·8	30·1	24·6	37·8	22·6	38·2	36·2	5·5	6·9	4·0	− 8·7	NNE	Calm	0·0	0·0	0·0	5	0·05
15	Apogee	29·715	34·3	24·0	28·4	20·3	36·0	17·5	37·7	35·8	8·1	9·4	6·7	−10·4	Calm	Calm	0·0	0·0	0·0	25	0·00
16	First Qr.	29·692	38·8	27·5	31·7	25·0	40·5	22·0	37·3	35·8	6·7	10·8	4·6	− 7·2	Calm; N	N	2·0	0·0	0·2	125	0·05
17	..	29·541	35·0	26·7	30·3	25·3	38·0	20·0	37·2	35·5	5·0	6·4	3·3	− 8·7	N	N	5·0	0·0	1·0	200	0·00
18	..	29·395	34·0	26·1	28·8	22·0	37·8	23·0	36·9	35·2	6·8	9·7	4·7	−10·3	N	N	3·0	0·0	0·5	70	0·03
19	Greatest Declination N.	29·528	36·2	20·5	28·7	16·5	41·0	13·1	36·7	34·7	12·2	13·1	6·8	−10·5	N; NE	NE; N	0·0	0·0	0·0	55	0·00
20	..	29·730	36·2	22·0	30·2	21·0	40·0	12·8	36·2	34·2	9·2	9·9	5·5	− 9·1	NNW	N	0·0	0·0	0·0	50	0·00
21	..	29·974	37·5	27·3	31·9	27·2	39·5	20·0	36·2	34·2	4·7	7·4	3·9	− 7·4	N	N	1·5	0·0	0·0	50	0·00
22	..	29·847	39·2	25·0	32·8	28·2	41·0	17·7	36·2	34·5	4·6	8·0	3·8	− 6·6	WSW	Calm	0·0	0·0	0·0	45	0·10
23	Full	29·367	42·8	29·5	35·5	27·7	45·0	23·2	35·7	34·7	7·8	12·7	5·0	− 4·0	Calm; NW	NW; NNE	10·0	0·0	1·9	190	0·02
24	..	29·604	37·0	28·2	33·3	27·4	39·7	24·0	35·5	34·7	5·9	10·4	4·2	− 6·3	N	NW; WSW	6·5	0·0	1·8	150	0·05
25	..	29·552	42·0	32·7	35·8	28·0	45·0	31·0	36·2	35·5	7·8	12·3	5·0	− 3·9	WSW; NNE	NNE	7·0	0·0	1·4	135	0·10
26	In Equator	28·974	43·8	31·5	37·2	29·7	46·0	31·8	36·7	36·2	7·5	13·9	2·0	− 2·6	SW	NW	15·0	0·0	4·0	275	0·12
27	Perigee	29·473	39·5	30·0	32·7	26·0	42·0	30·3	36·5	36·1	6·7	13·7	5·3	− 7·2	NW	NE	5·0	0·0	0·8	25	0·00
28	..	29·777	45·0	25·5	33·5	24·0	49·0	15·0	36·5	36·5	9·5	14·8	7·4	− 6·4	NE	N; Calm	0·0	0·0	0·0	15	0·00

MONTH and DAY, 1853.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Jan. 1			8, ci.-s, li.-sc	8, ci.-s, li.-sc
2			10, m.-r, h.-r	9, m.-r
3			10, r	5 : o
4			10, h.-sqs, w, r	10, h.-sqs, w, r
5			o, : 10, ci.-s	10, ci.-s, shs.-r : o
6			10, h.-r	10, h.-r : o
7			10, h.-r	10, h.-r : o
8			7, v	7, v
9			o, : 10	10 : o
10			10, fr.-shs	10, fr.-shs
11			o	10, r
12			10, fr.-shs	10, fr.-shs
13			8, ci, li.-cl, : so.-ha	8, so.-ha, ci, li.-cl
14			o	5, v, ci.-s, fl.-cls
15			10, cu.-s, ci.-s, sc, r	8, o
16			10	10, r
17			2	10
18			o	10 : o
19			10, m.-r	10, m.-r
20			o	v, : lu.-ha
21			v, r : h.-r, hl	v, r : lu.-cor
22			7, ci.-s, sc	7, ci.-s, sc : v
23			o	v, cu.-s, ci.-s : lu.-cor
24			10, ci.-s	10, ci.-s
25			10, cu.-s, ci.-s	10, cu.-s, ci.-s
26			8, cu.-s, ci.-s : 10	10, cu, ci.-s, li.-cl
27			10, ci.-s	10, ci.-s : r
28	o	o : o : w	10, ci.-s, r	10, ci.-s
29	w : o	o	10, ci.-s	10, ci.-s
30			10	10 : r
31			o	o : f
Feb. 1	s	o : s	10, th.-f	8 : 10, th.-f
2	s	o	10, th.-f : o	o
3	o	o	10, ci.-s	10, ci.-s
4	o	o	10, ci.-s	10, ci.-s, r
5	o	o	10, sn	10
6	o	o	10, ci.-s	10, ci.-s
7	o	o	10, cu.-s, ci.-s : o	o : 10, cu.-s, ci.-s
8	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s : o
9	o	o	10, cu.-s, ci.-s, li.-sc	10, cu.-s, ci.-s, li.-sc
10	o	o	10, ci.-s, r, sl	10, ci.-s, r, sl
11	o	w : o	10, ci.-s	7, ci.-s : 10, sn
12	m	m : s, sps, g cur	10, sn	8, sn : 10, th.-sn
13	o	o	10, ci.-s	10, ci.-s
14	o	o	9 : 10	10 : sn
15	o	o	10, ci.-s	10, ci.-s
16	o	o	10, ci.-cu, ci.-s, sn	7, ci.-cu, ci.-s : o
17	o	o	10, sn	10, sn : v
18	o	o	7, ci.-cu, ci.-s	7, ci.-cu, ci.-s
19	o	o	o	o
20	o	o	o	8, ci.-cu, ci.-s, li.-sc : c
21	o	o	9, ci.-s	9, ci.-s
22	o	o	10, ci.-s, sc, sn, r	10 ci.-s, sc, sn, r
23	o	o	10, ci.-s, sn, r	10, ci.-s, sn, r : v
24	o	o	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s
25	o	o	7, cu, cu.-s, ci.-s, sn, r	7, cu, cu.-s, ci.-s : 10
26	N, s : o	o	10, ci.-s, sn, r	10, ci.-s : st.-w
27	o	o	10, sn	10 : o
28	o	o	4, ci.-s, li.-cl	4, ci.-s, li.-cl : c, f

MONTH and DAY, 1853.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Shade as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day in an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.																	lbs.	lbs.	lbs.	miles.	in.
Mar. 1	..	29·550	36·0	28·9	31·6	29·6	40·2	20·8	36·3	36·3	2·0	4·4	0·0	— 8·4	SW	Calm	0·0	0·0	0·9	65	0·31
2	Last Qr.	29·299	42·2	30·0	35·4	30·2	48·8	24·6	36·5	36·5	5·2	12·5	3·9	— 4·6	W	N	6·0	0·0	0·9	80	0·17
3	..	29·856	42·0	30·5	34·5	26·4	47·0	23·2	37·1	36·9	8·1	16·8	5·7	— 5·5	NE	NE	3·0	0·0	0·3	30	0·00
4	Greatest Declination S.	29·980	44·0	26·6	35·6	27·0	54·0	19·7	37·7	37·0	8·6	16·3	4·0	— 4·3	Calm	W	3·0	0·0	0·2	120	0·00
5	..	29·705	50·8	36·6	43·9	41·4	51·0	29·8	39·2	38·0	2·5	5·9	0·0	+ 4·1	SW	Calm	0·0	0·0	0·0	50	0·20
6	..	29·773	54·8	41·2	47·8	40·3	60·7	37·5	41·7	39·0	7·5	11·8	3·4	+ 8·1	Calm	SW	0·0	0·0	0·0	70	0·00
7	..	29·838	53·5	44·9	46·9	43·6	57·2	41·5	43·2	40·3	3·3	6·3	3·0	+ 7·2	SW	Calm	0·0	0·0	0·0	20	0·11
8	..	29·858	50·7	37·0	44·0	37·3	54·0	29·8	43·9	41·8	6·7	13·4	3·8	+ 4·1	Calm	Calm	0·0	0·0	0·0	50	0·02
9	New	30·044	52·2	31·3	42·0	36·5	58·5	25·0	44·3	43·0	5·5	12·0	1·3	+ 1·8	Calm	SW	0·0	0·0	0·0	55	0·04
10	..	30·071	56·8	37·4	45·5	37·7	64·0	34·8	45·2	43·8	7·8	14·6	2·6	+ 5·1	S	SSW	0·0	0·0	0·0	60	0·00
11	In Equator.	30·017	52·8	33·3	42·2	37·4	62·5	25·0	45·3	44·2	4·8	9·9	2·8	+ 1·5	Calm; E	ESE	0·0	0·0	0·0	55	0·00
12	..	29·880	55·8	34·9	44·1	38·3	65·0	30·7	45·3	44·6	5·8	11·0	2·5	+ 3·2	Calm; E	E	0·0	0·0	0·0	35	0·00
13	..	29·651	60·5	34·8	48·8	39·3	70·3	26·2	45·7	44·6	9·5	13·9	4·1	+ 7·6	Calm	SE	0·0	0·0	0·0	25	0·00
14	..	29·463	48·8	37·7	40·4	37·5	53·0	32·2	45·7	44·6	2·9	7·2	4·1	— 1·0	S	WSW	4·0	0·0	0·8	120	0·50
15	Apogee	29·484	49·7	32·7	41·1	33·4	58·2	27·8	45·7	44·6	7·7	13·2	4·9	— 0·4	Calm	Calm; SE	0·0	0·0	0·0	45	0·00
16	..	29·531	43·8	33·2	36·6	32·3	48·7	32·0	45·7	43·8	4·3	8·9	3·0	— 5·1	Calm; NE	NE	0·0	0·0	0·0	55	0·00
17	First Qr.	29·736	34·8	28·8	29·2	22·3	35·0	30·3	44·7	42·2	6·9	9·4	4·9	—12·6	NE	NE	0·0	0·0	0·0	55	0·01
18	..	29·895	35·0	25·8	28·5	21·1	38·0	20·3	44·3	40·2	7·4	9·8	5·5	—13·3	NE	E	3·0	0·0	0·5	95	0·00
19	Greatest Declination N.	30·034	40·5	24·2	31·7	25·2	43·0	15·0	44·5	38·2	6·5	11·2	5·0	—10·2	NE	NNE	2·5	0·0	0·2	55	0·00
20	..	29·920	42·0	26·3	34·3	27·3	47·0	20·0	44·2	39·1	7·0	13·4	3·0	— 7·7	NW	NW	0·0	0·0	0·0	55	0·00
21	..	29·691	38·5	29·3	34·8	31·9	40·0	21·0	43·2	39·1	2·9	7·8	..	— 7·3	Calm	Calm	0·0	0·0	0·0	20	0·02
22	..	29·761	44·5	27·9	34·3	28·6	49·5	20·0	42·9	39·1	5·7	12·2	3·6	— 7·9	NE	NNE	4·0	0·0	0·5	110	0·00
23	..	29·738	40·5	28·5	31·9	26·8	44·0	23·0	42·2	38·8	5·1	13·0	4·2	—10·4	NE	NE	3·0	0·0	0·4	90	0·01
24	..	29·687	42·0	26·3	31·7	25·4	49·5	19·5	41·5	38·4	6·3	14·8	3·1	—10·7	NE	NE; Calm	0·0	0·0	0·0	15	0·04
25	Full. In Equator.	29·756	40·2	20·8	32·2	22·9	53·0	16·7	40·7	38·2	9·3	15·5	8·0	—10·3	Calm; NE	NE	0·0	0·0	0·0	15	0·03
26	..	29·779	44·0	22·7	33·9	23·5	58·0	12·2	40·2	38·0	10·4	17·0	7·6	— 8·8	Calm; NE	NE; Calm	0·0	0·0	0·0	10	0·00
27	Perigee.	29·935	50·0	26·1	39·4	29·4	60·0	15·0	39·7	38·2	10·0	15·4	6·0	— 3·4	Calm	NW; Calm	0·0	0·0	0·0	25	0·02
28	..	30·038	50·5	30·9	39·9	31·5	60·0	21·0	40·2	38·4	8·4	14·3	6·2	— 3·1	NE	Calm	0·0	0·0	0·0	10	0·00
29	..	29·973	48·8	27·0	38·5	28·7	65·0	15·0	40·7	39·7	9·8	16·9	6·4	— 4·7	E	ESE	1·8	0·0	0·2	60	0·01
30	..	29·685	54·5	36·4	44·0	32·3	69·8	19·5	41·9	40·6	11·7	17·0	5·8	+ 0·7	SE	SW	0·0	0·0	0·0	60	0·00
31	Last Quarter. Greatest Dec. S.	29·539	57·0	36·4	47·6	34·4	69·5	27·7	43·9	41·7	13·2	18·4	9·0	+ 4·2	SW	SW	6·0	0·0	0·8	200	0·00
April 1	..	29·293	57·2	42·4	47·6	37·3	60·0	38·8	45·7	43·2	10·3	15·4	6·9	+ 4·0	SW	SSW	8·0	0·0	1·0	235	0·41
2	..	29·663	56·5	40·6	46·6	35·8	63·6	35·6	47·7	44·4	10·8	16·6	5·8	+ 2·9	SSW	W	5·0	0·0	0·8	190	0·00
3	..	29·494	51·7	43·4	46·0	39·8	54·0	34·0	48·1	45·5	6·2	9·7	3·3	+ 2·1	SW	SW	6·0	0·0	1·1	160	0·10
4	..	29·635	62·0	46·2	51·6	43·2	73·7	42·0	49·1	47·1	8·4	15·3	4·2	+ 7·6	WSW	W	5·0	0·0	0·3	..	0·04
5	..	29·748	60·0	48·8	51·0	47·4	61·5	48·2	50·3	49·1	3·6	6·5	3·2	+ 6·8	WSW	W	2·0	0·0	0·1	..	0·15
6	..	29·764	60·5	47·1	52·0	46·0	67·0	41·8	51·3	49·7	6·0	8·5	4·8	+ 7·6	SW	SW	4·5	0·0	0·7	..	0·00
7	In Equator.	29·629	58·0	45·8	48·9	39·0	68·0	41·5	51·7	49·7	9·9	14·6	6·9	+ 4·4	W	W	8·0	0·0	1·6	..	0·01
8	New.	29·773	50·6	38·5	41·6	36·1	62·2	30·0	51·2	48·7	5·5	11·2	4·5	— 3·1	W	N	5·0	0·0	0·2	..	0·14
9	..	30·149	48·2	33·6	39·9	29·4	59·8	24·0	50·2	48·8	10·5	16·3	7·0	— 4·9	N	N; Calm	0·0	0·0	0·0	..	0·00
10	..	29·979	56·2	39·5	46·6	38·9	59·0	..	50·1	48·8	7·7	12·0	5·8	+ 1·6	W	N	6·0	0·0	0·7	..	0·00
11	Apogee.	30·013	57·0	37·9	47·6	37·9	62·0	..	49·7	48·4	9·7	13·5	7·5	+ 2·5	Calm; N	NW: N	2·5	0·0	0·2	..	0·00
12	..	29·837	53·8	41·8	45·8	34·3	57·8	36·0	49·7	48·3	11·5	15·8	8·4	+ 0·5	N	N; NE	4·0	0·0	0·1	110	0·00
13	..	29·854	48·0	35·3	39·1	31·8	53·0	27·0	49·2	47·8	7·3	13·0	6·0	— 6·4	NE	NE	6·0	0·0	0·8	115	0·02
14	..	29·921	52·0	32·5	42·3	32·0	57·8	23·0	48·9	47·8	10·3	16·3	7·0	— 3·4	Calm; NE	NE	4·0	0·0	0·2	110	0·00
15	Greatest Declination N.	30·010	49·7	36·0	42·5	36·3	53·0	27·0	48·3	47·5	6·2	9·9	5·5	— 3·6	NE; NW	Calm; NW	0·0	0·0	0·0	90	0·00
16	First Qr.	29·985	53·7	42·6	47·0	38·0	56·0	32·0	48·2	47·7	9·0	13·0	5·0	+ 1·0	NW	Calm	0·0	0·0	0·0	120	0·00
17	..	29·951	58·0	42·4	49·6	41·5	67·5	37·0	48·7	47·9	8·1	11·0	6·8	+ 3·3	W	W	2·0	0·0	0·3	130	0·00
18	..	29·946	60·5	46·5	51·8	43·6	65·0	42·7	50·1	48·5	8·2	13·1	4·4	+ 5·3	W	NW	0·0	0·0	0·0	50	0·00
19	..	29·759	57·8	40·5	48·3	41·3	63·0	35·0	50·9	48·7	7·0	11·8	5·1	+ 1·5	SW	SW	0·0	0·0	0·0	100	0·00
20	..	29·658	53·5	40·5	44·0	33·2	63·4	32·0	50·9	49·2	10·8	14·8	4·1	— 3·0	NW	NW	4·8	0·0	0·3	115	0·10
21	..	29·372	48·5	40·2	41·8	39·4	50·0	36·0	51·3	49·6	2·4	5·5	1·0	— 5·5	SW	SE	0·0	0·0	0·0	80	0·25
22	In Equator	29·483	52·0	41·7	44·1	41·9	57·0	43·0	50·3	49·1	2·2	4·6	1·0	— 3·4	SE	S	4·0	0·0	0·6	150	0·45
23	Full.	29·692	51·5	37·3	41·8	35·3	55·5	34·0	49·7	48·8	6·5	11·7	3·8	— 6·0	NE	NW; W	3·8	0·0	0·2	140	0·10
24	Perigee.	29·631	47·5	36·0	39·6	37·0	55·5	29·8	49·2	46·9	2·6	9·9	1·0	— 8·6	W	W; Calm	2·5	0·0	0·2	110	0·11
25	..	29·229	42·2	32·3	35·1	34·3	47·0	32·0	49·2	45·7	0·8	7·5	0·0	—13·4	Calm; NW	NW; W	4·0	0·0	1·0	225	0·80
26	..	29·604	51·8	35·3	41·6	34·2	62·0	29·0	47·3	45·0	7·4	12·1	4·8	— 7·2	NW	NE	3·0	0·0	0·2	80	0·02
27	..	29·739	56·8	32·7	43·4	34·5	70·8	26·5	47·5	46·0	8·9	15·2	6·0	— 5·8	Calm	Calm	0·0	0·0	0·0	50	0·01
28	Greatest Declination S.	29·669	57·0	33·8	45·8	38·4	69·5	24·2	47·2	45·5	7·4	12·8	5·3	— 3·7	Calm	ESE	3·5	0·0	0·4	115	0·00
29	..	29·501	45·8	41·9	41·5	40·8	47·0	40·2	48·2	..	0·7	3·5	0·0	— 8·4	E	E	2·0	0·0	0·1	90	0·38

MONTH and DAY, 1853.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Mar. 1	o	o	10, sn	10, sn
2	o	o	10, ci.-cu, ci.-s, sn, r	10 : sn, r
3	o	o	5, cu, cu.-s, ci.-s, sn	5, cu, cu.-s, ci.-s
4	o	m : o	5, ci.-s	5, ci.-s : 10, r
5	o	o	10, ci.-s, h.-r	10, ci.-s : m.-r
6			10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : r
7			10, ci.-s, r	10, ci.-s, r
8			10, n, ci.-s, r	10, n, ci.-s : o, r
9			10, ci.-cu, ci.-s, f	10, ci.-cu, ci.-s, f
10			10, cu, ci.-cu, ci.-s	10, cu, ci.-cu : o
11			3, cu, ci.-cu, ci.-s	3 cu, ci.-cu, ci.-s : v
12			f : o	o
13			10, ci.-s	v, ci.-s : r
14			10, ci.-s, h.-r	10, ci.-s :
15			5, cu, cu.-s, ci.-s	5, cu, cu.-s, ci.-s : 10
16			10, cu, cu.-s, ci.-s, r	10, cu, cu.-s, ci.-s
17			10, sl	10, sl
18			7, ci.-cu, ci.-s, sc, sl	7, ci.-cu, ci.-s, sc, sl : o
19			7, ci.-cu, ci.-s, sn	7, ci.-cu, ci.-s
20			10, ci.-cu, ci.s, sc	10, ci.-cu, ci.-s, sl :
21			10, sn, sl	10, sn, sl
22			10, cu, cu.-s, ci.-s : 8	10, sn, sl
23			10, cu, cu.-s, ci.-s, sc, sn, sl, hl	10, cu, cu.-s, ci.-s, sc :
24			v, ci.-cu, ci.-s, sc, hl	v, ci.-cu, ci.-s, sc, hl, sn : r
25			5, cu, cu.-s, ci.-s, sc, sn	5, cu, cu.-s, ci.-s, sc, sn
26			v, cu.-s, ci.-s, sc	v, cu.-s, ci.-s, sc : o
27			10	10, r : r
28			10, ci.-cu, ci.-s, sc	10, ci.-cu, ci.-s, sc : o
29			o	o
30			o	o
31			o	10 : h.-r
April 1			v, cu, cu.-s, ci.-s, r	v, cu, cu.-s, ci.-s, r, hl : o
2			7, cu, ci.-cu, ci.-s	v, cu, ci.-cu, ci.-s
3			10, r	10, r
4			10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s : r
5			10	10, r : r, a
6			10, ci.-s	10, ci.-s
7			10, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : o
8			7, cu, ci.-cu, ci.-s, sc, r	10, l, t
9			5, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s
10			9, ci.-cu, ci.-s	10, ci. cu, ci.-s
11			10, cu, cu.-s, ci.-s, r	5, cu, cu.-s, ci.-s : 10
12			7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : 10
13			10, shs, hl, r	10, shs, hl, r : o
14			10, ci.-cu, ci.-	10, ci.-cu, ci.-s
15			10, ci.-s	10, ci.-s
16			10, ci.-s	10, ci.-s
17			5, ci.-cu, ci.-s	10, ci.-cu, ci.-s
18			10, ci.-s	10, ci.-s
19			10, ci.-s	10, ci.-s : r
20			7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : o
21			10, ci.-s, r	10, ci.-s, r
22			10, h.-r	10, h.-r
23	o	o : s N, s P, sps, g cur	10, cu.-s, ci.-s	7, cu.-s, ci.-s : v, shs, hl, r
24	s N, sps, g cur	s N, sps, g cur	10, r	10, r
25	o	o	10, sn : r	10, r : s
26	o	o	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s
27	o	s P : o	10, cu, cu.-s, ci.-s, h	7, cu, cu.-s, ci.-s : o
28	o	s P : o	7, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s
29	o	o	10, r	10 :

MONTH and DAY, 1853.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Wind as deduced from Anemometers. Osler's. General Direction. P. M.	Wind as deduced from Anemometers. Osler's. Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. Least.	Mean of 24 Obs.	Wheewell. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles	in.
Apr. 30	Last Qr.	29·623	60·8	40·3	50·6	42·6	75·5	31·0	49·2	..	8·0	13·3	5·9	+ 0·3	Calm	Calm	0·0	0·0	0·0	10	0·00
May 1	..	29·797	65·5	38·4	52·6	41·6	85·0	28·0	50·7	..	11·0	18·7	1·0	+ 1·8	Calm	Calm	0·0	0·0	0·0	90	0·00
2	..	29·711	63·0	42·7	51·5	46·2	76·0	37·0	52·7	..	5·3	9·9	1·7	+ 0·4	ESE	ESE	3·0	0·0	0·2	90	0·00
3	..	29·678	57·0	47·3	50·2	49·8	57·5	44·2	53·2	..	0·4	3·6	0·0	— 1·3	ESE	E; Calm	0·0	0·0	0·0	30	0·50
4	..	29·971	55·8	47·8	49·1	47·3	57·0	50·0	53·7	51·6	1·8	5·7	1·0	— 2·7	Calm	ENE	3·0	0·0	0·2	105	0·04
5	In Equator.	29·966	61·0	40·5	50·2	42·6	74·0	32·0	53·9	51·7	7·6	12·5	1·9	— 1·8	NE	ENE	4·0	0·0	0·8	115	0·00
6	..	29·803	51·0	36·9	43·4	39·6	53·0	26·5	54·1	52·2	3·8	6·9	1·8	— 8·8	NE	NE	2·8	0·0	0·3	115	0·00
7	..	29·483	47·0	36·3	38·0	36·5	49·4	37·0	53·2	50·0	1·5	11·0	0·7	—14·2	NE	NE	1·3	0·0	0·1	130	0·30
8	New	29·537	53·5	34·2	40·1	35·3	55·0	28·0	52·2	49·6	4·8	10·6	2·9	—12·0	N	NW	5·0	0·0	0·6	155	0·02
9	Apogee	29·371	53·0	35·9	41·9	36·6	59·5	29·0	51·2	48·7	5·3	12·6	4·1	—10·1	SW	SW; W	6·0	0·0	1·0	185	0·20
10	..	29·811	54·5	36·9	43·0	35·3	66·0	35·2	50·3	48·2	7·7	15·4	3·8	— 8·9	NW; N	NW; Calm	5·0	0·0	0·3	55	0·03
11	..	29·942	56·7	32·6	45·5	35·8	68·5	25·0	50·2	48·2	9·7	16·2	5·5	— 6·3	Calm	NE	0·0	0·0	0·0	40	0·00
12	Greatest Declination N.	29·862	58·5	34·8	47·1	36·1	66·5	25·0	50·2	48·7	11·0	17·4	2·1	— 4·6	Calm	E	3·0	0·0	1·0	155	0·02
13	..	29·921	54·5	43·8	48·5	40·6	57·8	43·6	50·3	49·2	7·9	12·8	5·3	— 3·2	SE	Calm	4·0	0·0	0·3	75	0·10
14	..	29·873	61·0	41·3	51·0	41·8	75·0	33·8	51·5	49·6	9·2	14·3	3·1	— 0·9	E	SE; Calm	5·3	0·0	0·4	130	0·00
15	..	29·690	60·3	41·4	50·4	42·4	73·8	32·8	53·1	50·4	8·0	11·6	3·4	— 1·9	E	ESE	3·0	0·0	0·3	110	0·00
16	First Qr.	29·563	68·0	47·8	57·3	49·5	82·5	41·8	55·1	51·7	7·8	10·9	1·8	+ 4·8	E	ENE; Calm	2·5	0·0	0·2	100	0·00
17	..	29·598	65·5	47·7	55·8	46·5	81·0	42·0	57·2	53·2	9·3	11·9	5·3	+ 3·0	NE	NE; N	1·5	0·0	0·2	95	0·00
18	..	29·798	71·5	46·3	58·1	46·7	90·0	40·5	58·1	54·7	11·4	15·3	5·3	+ 4·9	N	NE; Calm	0·0	0·0	0·0	60	0·00
19	In Equator.	29·831	72·2	43·3	59·5	48·2	87·3	34·8	58·7	55·7	11·3	15·3	5·0	+ 6·1	Calm; SW	NW	0·0	0·0	0·0	90	0·00
20	..	29·936	66·0	41·3	52·5	43·3	86·0	37·0	59·1	55·9	9·2	14·6	2·4	— 1·3	N	NE	0·0	0·0	0·0	40	0·00
21	..	29·900	66·2	38·5	52·8	42·2	80·0	30·3	59·7	56·5	10·6	17·3	3·8	— 1·2	Calm; NE	NE	0·0	0·0	0·0	110	0·00
22	Perigee Full.	29·963	68·2	41·6	55·9	40·9	83·2	32·3	59·7	56·7	15·0	17·6	6·7	+ 1·6	NE	NE	5·0	0·0	0·8	130	0·00
23	..	29·944	71·0	42·7	59·2	46·1	86·0	32·2	59·7	57·1	13·1	16·7	4·8	+ 4·7	NNE	NE	4·5	0·0	0·6	105	0·00
24	..	29·804	72·5	45·3	59·8	48·1	87·0	36·5	60·3	57·9	11·7	14·9	3·0	+ 5·0	NE	NE	4·0	0·0	0·4	90	0·00
25	Greatest Declination S.	29·553	73·5	49·7	60·4	50·3	89·2	42·6	61·3	58·7	10·1	15·0	3·6	+ 5·4	NE	NE	0·0	0·0	0·0	80	0·00
26	..	29·464	78·5	45·9	63·2	51·6	98·0	36·2	62·5	59·7	11·6	17·6	2·5	+ 7·9	Calm	Calm	0·0	0·0	0·0	20	0·00
27	..	29·545	78·8	50·5	64·7	56·4	94·7	43·5	63·7	60·7	8·3	13·8	1·1	+ 9·2	Calm	Calm	0·0	0·0	0·0	55	0·03
28	..	29·598	66·0	49·2	54·6	48·0	81·0	41·2	63·7	60·7	6·6	11·2	3·1	— 1·2	SW	SW	2·0	0·0	0·1	95	0·10
29	Last Qr.	29·753	63·0	45·5	51·3	46·9	72·8	42·8	63·2	60·3	4·4	9·7	2·5	— 4·6	W	NW	4·0	0·0	0·2	95	0·25
30	..	29·866	67·0	44·2	54·4	47·4	80·0	35·8	62·7	60·2	7·0	12·2	5·3	— 1·8	Calm	NE	0·0	0·0	0·0	100	0·02
31	..	29·844	56·0	49·1	50·8	47·0	58·5	42·2	61·7	59·5	3·8	6·8	2·9	— 5·6	NNE	N	5·0	0·0	0·8	150	0·00
June 1	In Equator	29·850	57·0	49·1	50·0	47·3	62·0	49·5	60·7	57·9	2·7	6·7	2·4	— 6·5	N	N	3·0	0·0	0·4	105	0·00
2	..	29·966	60·2	47·7	50·7	48·8	65·5	48·0	60·2	57·3	1·9	5·7	1·0	— 6·1	N	N	2·0	0·0	0·2	105	0.15
3	..	30·000	67·0	47·1	54·2	41·8	83·5	45·7	59·7	56·7	12·4	17·3	6·8	— 2·8	NNE	NE	0·0	0·0	0·0	35	0·00
4	..	29·875	64·5	39·9	51·0	39·2	80·0	31·0	59·5	56·9	11·8	17·5	6·2	— 6·1	N	N	0·0	0·0	0·0	30	0·00
5	Apogee	29·783	67·7	44·7	56·3	41·5	85·0	36·0	59·3	56·7	14·8	18·7	2·8	— 1·0	Calm	S	0·0	0·0	0·0	30	0·00
6	New	29·767	69·6	44·2	57·1	46·1	71·5	37·0	59·3	57·2	11·0	17·1	3·7	— 0·4	S; Calm	Calm	0·0	0·0	0·0	5	0·03
7	..	29·884	72·5	42·3	58·4	47·4	97·0	37·8	59·5	57·2	11·0	15·9	3·1	+ 0·6	Calm; N	N	0·0	0·0	0·0	15	0·00
8	Greatest Declination N.	29·936	77·5	49·1	65·0	48·6	105·5	40·6	62·1	59·5	16·4	23·0	2·9	+ 7·1	Calm; SW	SW	0·0	0·0	0·0	55	0·00
9	..	29·880	68·2	54·6	59·8	51·6	87·0	49·7	63·3	60·3	8·2	12·6	3·0	+ 1·7	SW	SW	0·0	0·0	0·0	5	0·16
10	..	29·776	76·5	53·2	61·2	52·4	94·7	46·4	63·7	60·9	8·8	17·7	2·8	+ 2·9	Calm	SE	4·0	0·0	0·3	75	0·01
11	..	29·610	81·0	56·5	68·0	55·7	104·3	53·0	65·2	62·2	12·3	19·5	4·0	+ 9·5	SE	SE; N	2·0	0·0	0·1	135	0·04
12	..	29·603	67·2	52·5	58·3	50·5	70·0	45·5	64·7	61·7	7·8	10·9	3·0	— 0·5	N	N	0·0	0·0	0·0	70	0·00
13	..	29·616	59·0	51·1	52·5	48·7	60·0	52·2	65·1	61·9	3·8	5·9	0·0	— 6·4	N; NW	NW; N	0·0	0·0	0·0	75	1·15
14	First Qr.	29·792	71·0	51·1	58·8	52·3	85·0	51·5	64·7	61·7	6·5	14·0	2·3	— 0·2	Calm; NE	Calm	0·0	0·0	0·0	60	0·09
15	In Equator	29·879	72·5	50·4	60·7	52·6	85·2	45·0	63·7	61·2	8·1	12·2	2·9	+ 1·5	SW	SW	0·0	0·0	0·0	90	0·06
16	..	29·921	74·0	53·5	61·1	50·8	97·0	49·8	64·2	62·3	10·3	19·5	3·4	+ 1·7	SW	S	0·0	0·0	0·0	90	0·00
17	..	29·925	73·8	49·7	62·3	52·1	90·3	44·8	64·7	62·7	10·2	16·3	1·9	+ 2·8	S; SW	SW	0·0	0·0	0·0	120	0·00
18	..	29·848	67·7	49·9	56·7	50·8	77·0	43·6	65·2	62·9	5·9	11·2	2·1	— 3·0	SW	SW	2·0	0·0	0·2	150	0·00
19	..	29·570	62·6	50·4	55·8	50·8	65·2	46·2	64·7	62·7	5·0	7·3	2·9	— 4·1	SSW	SW	2·8	0·0	0·2	105	0·25
20	Perigee	29·468	63·7	44·7	52·9	42·7	78·0	52·5	63·7	61·5	10·2	14·3	2·1	— 7·2	WSW; N	S; Calm	0·0	0·0	0·0	40	0·00
21	Full	29·547	64·7	44·1	52·7	46·9	77·2	38·8	63·2	60·7	5·8	12·4	2·1	— 7·6	Calm; NE	NE	0·0	0·0	0·0	40	0·10
22	Greatest Declination S.	29·650	65·0	44·7	55·0	47·8	76·0	37·0	62·9	60·5	7·2	11·5	1·6	— 5·4	NNE; N	NNW	0·0	0·0	0·0	135	0·05
23	..	29·675	70·5	51·8	59·3	51·4	83·5	49·8	63·2	60·5	7·9	13·6	3·6	— 1·3	N	N; Calm	4·0	0·0	0·6	60	0·00
24	..	29·684	78·7	50·5	64·8	53·6	92·5	43·2	64·2	62·2	11·2	20·1	1·5	+ 4·1	SW	WSW	5·0	0·0	0·4	170	0·02
25	..	29·585	69·0	56·3	61·0	54·5	74·5	51·5	64·3	62·2	6·5	10·4	3·6	+ 0·1	SW	SW; NE; Calm	2·0	0·0	0·2	140	0·13
26	..	29·536	65·2	53·7	58·0	50·6	69·0	53·0	64·3	63·2	7·4	10·2	1·4	— 3·0	NW; W	SW	3·5	0·0	0·6	205	0·43
27	..	29·509	69·8	55·4	61·2	55·8	75·2	54·3	64·7	62·7	5·4	9·4	2·2	0·0	SW	SW	12·0	1·0	5·6	260	0·01

MONTH and DAY, 1853.	ELECTRICITY.		CLOUDS AND WEATHER	
	A. M.	P. M.	A. M.	P. M.
Apr. 30	o	s	10 cu, cu.-s, ci.-s	3, cu, cu.-s, ci.-s
May 1	o	o : s	o	o
2	m	m	o	10. s, li.-ci
3	s P, s N, sps, g cur	s P, s N, sps, g cur	10, r	10, r
4	m	m	10	10 : 5
5	m	m	o	o
6	o	o	10 ci.-s : r	10, ci.-s
7	s P, s N, sps, g cur	s P, s N, sps, g cur	10, r	10, r : 8
8	o	s N	10	10, shs, sn, hl, r
9	s N, sps, g cur	m	10, cu, cu.-s, ci.-s, r	8, shs, hl, r : 10
10	o	N m	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s
11	m	m	o	10, cu, ci.-cu : o
12	m	m : s N, sps, g cur	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : r
13	s	s	10, s, ci.-s	10, s, ci.-s : o
14	s	o	o	o
15	m	m	7, ci.-cu, s, ci	7, ci.-cu, s, ci
16	m	m	5, ci.-cu, ci.-s	o : 10, l
17	m	m : o	3, ci.-cu, ci, li.-cl	3, ci.-cu, ci, li.-cl
18	o	m	o	o
19	m	m	5. cu, ci.-cu, s : o	o : 5, cu, ci.-cu, s
20	s	s	3	3 : o
21	v	v	5, cu, cu.-s	o
22	m	m	o	o
23	v	v	o	o : 10, ci.-cu, ci.-s
24	s	s	o	o : 10
25	m	m	7, s, ci, so.-ha	o
26	m	m	3, s, ci, h	3, s, ci, h : o
27	w	w	9, cu, cu.-s, ci.-s	9, cu.-cu.-s, ci.-s : l, t, r
28	s	s	10, cu.-s, ci.-s, r	10, cu.-s, ci.-s, r
29	s N, s P, sps, g cur	o	10, cu, cu.-s, ci.-s : l, t, hl, h.-r	v, cu, cu.-s, ci.-s
30	o	s	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s, r
31	s	o	10, ci.-s, sn, th.-r	10, ci.-s
June 1	o	o	10, ci.-s	10, ci.-s
2	o	s, sps, g cur : o	10	10, r : r
3	o	m : o	5, cu, ci.-cu, ci	5, cu, ci.-cu, ci : o
4	o	o	7, cu.-s, ci.-s, sc	5, cu.-s, ci.-s, sc : o
5			3, s, ci	7, s, ci : o
6			10, cu, ci.-cu, ci.-s, r	10, cu, ci.-cu, ci.-s, r
7			7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s
8			o	o : 7, ci, ci.-s
9			9, ci.-cu, ci.-s, r	9, ci.-cu, ci.-s
10			v, s, ci.-s, r	v, s, ci.-s
11			3, cu, ci.-cu, ci.-s	v : l, t, r
12			10, cu.-s, ci.-s	10, cu.-s, ci.-s
13			10, ci.-s, r	10, ci.-s, r
14			10, cu, cu.-s, ci.-s	10, t, h.-r, : 7
15			9, cu.-s, ci.-s, h.-shs.-r	9, cu.-s, ci.-s, h.-shs.-r
16			9, ci.-cu, s, ci	4, ci.-cu, s, ci
17			5, cu.-s, ci.-s, li.-cl	5, cu.-s, ci.-s, li.-cl : o
18			10, ci.-s, sc	10, ci.-s, sc
19			10, ci.-s, r	10, ci.-s, r : 9
20			10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc
21			10, cu, cu.-s, sc. shs.-r	10, cu, cu.-s, sc, shs.-r
22			10, s, ci.-s, sc, so.-ha	10, s. ci.-s, sc, shs.-r : s
23			7. cu, ci.-cu, ci	10. cu, ci.-cu, ci : o
24		s P, s N, sps, g cur	o	10, cu, cu.-s, ci.s- sc, t.-s : v
25			10, r	9. r
26	s P, s N	s P, s N	10, r	10, r
27	o	o : s P, s N	10, ci.-s, sc	10, ci.-s, sc, r

MONTH and DAY, 1853.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Shade as shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on 30 Average of 25 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs	miles	in.
June 28	Last Quarter. In Equator.	29·538	68·8	59·2	63·7	57·3	75·8	58·0	64·3	62·5	6·4	8·5	2·2	+ 2·4	SW	SW	5·0	0·5	3·0	215	0·02
29	..	29·594	70·7	55·5	60·6	49·6	82·2	50·0	64·3	62·9	11·0	15·0	6·0	— 0·9	WSW	WSW	8·5	0·0	1·1	175	0·00
30	..	29·581	70·5	51·8	59·2	48·9	76·3	46·0	64·7	64·7	10·3	16·1	2·8	— 2·5	WSW	SW	3·5	0·0	1·0	235	0·11
July 1	..	29·612	66·5	48·3	55·1	48·3	76·2	42·0	64·2	64·2	6·8	12·4	3·8	— 6·7	SW	SW	2·5	0·0	0·2	125	0·30
2	Apogee	29·675	66·6	48·7	56·0	45·8	70·0	43·8	63·7	63·7	10·2	15·2	3·3	— 6·0	SW; NNW	NNW; W	2·4	0·0	0·3	95	0·02
3	..	30·092	70·0	50·1	59·4	47·7	85·2	43·5	63·3	..	11·7	17·8	2·7	— 2·7	SW	WSW	0·0	0·0	0·0	125	0·00
4	..	30·004	71·8	51·5	61·3	50·7	87·0	45·5	63·7	..	10·6	14·9	3·0	— 0·9	SW	S	1·5	0·0	0·2	145	0·00
5	..	29·872	72·8	54·7	61·8	54·7	85·0	49·6	64·3	..	7·1	12·8	3·4	— 0·5	SSW	SW	4·8	0·0	0·8	190	0·00
6	Greatest Dec N. New.	29·817	77·3	55·5	65·5	58·4	99·8	48·0	65·7	..	7·1	12·9	2·6	+ 3·3	SW	SSW	3·5	0·0	0·5	120	0·00
7	..	29·763	81·7	58·4	69·3	60·7	97·2	53·0	66·7	..	8·6	15·8	2·7	+ 7·2	S	SE; Calm	0·0	0·0	0·0	45	0·00
8	..	29·832	78·5	61·5	68·4	62·5	82·2	60·2	67·7	..	5·9	11·4	0·5	+ 6·4	E; NE	ENE	0·0	0·0	0·0	70	0·63
9	..	29·797	74·0	57·4	62·7	57·9	86·0	57·0	67·9	..	4·8	10·2	3·6	+ 0·8	NE; S	S	1·0	0·0	0·0	115	0·25
10	..	29·841	68·2	54·1	58·4	48·1	77·0	52·2	67·7	..	10·3	8·3	3·2	— 3·4	W	W; SW	2·5	0·0	0·3	145	0·00
11	..	29·876	71·5	50·4	62·7	54·7	81·8	53·3	67·3	64·9	8·0	9·8	2·9	+ 0·9	SW	SW	1·5	0·0	0·0	105	0·00
12	..	29·881	75·3	51·7	61·9	45·4	101·0	43·8	66·7	65·1	16·5	16·7	3·6	0·0	SW	SW	0·0	0·0	0·0	10	0·00
13	In Equator. First Quarter.	29·602	73·6	50·9	61·3	50·5	87·5	44·2	66·7	63·7	10·8	14·4	2·3	— 0·7	SSW; SE	ENE	1·4	0·0	0·0	85	0·10
14	..	29·169	60·9	54·1	55·9	51·9	61·0	54·2	66·7	62·7	4·0	5·3	2·6	— 6·2	SW	SW	3·6	0·0	1·0	170	2·63
15	..	29·338	65·2	52·3	55·4	50·8	71·0	47·7	65·2	60·7	4·6	7·9	3·8	— 6·7	SW	SW	3·8	0·0	0·6	200	0·28
16	..	29·478	63·0	51·6	55·2	49·2	65·2	52·3	62·9	59·7	6·0	10·6	3·0	— 6·9	SSW	SSW	6·0	0·0	1·1	175	0·13
17	..	29·762	70·2	51·7	59·3	49·8	73·5	46·0	62·1	59·7	9·5	14·1	4·4	— 2·8	SW	SW	3·0	0·0	0·9	150	0·00
18	Perigee	29·729	65·2	50·7	56·0	51·2	72·0	44·0	62·2	60·1	4·8	11·0	3·6	— 6·0	SW	SW	3·5	0·0	0·5	175	0·24
19	Greatest Declination S.	29·800	71·5	54·1	60·9	52·3	82·7	53·0	62·2	60·2	8·6	13·5	3·8	— 1·0	W	WNW	1·0	0·0	0·0	70	0·01
20	Full	29·811	70·0	50·9	59·1	50·1	90·0	43·8	63·2	61·1	9·0	13·4	1·9	— 2·8	WSW	SW	0·0	0·0	0·0	100	0·00
21	..	29·677	70·8	55·9	60·6	52·9	84·2	45·0	63·3	61·7	7·7	12·8	6·1	— 1·2	SW	SW	0·0	0·0	0·0	100	0·01
22	..	29·608	66·5	57·9	60·2	56·2	71·4	57·2	63·5	62·1	4·0	7·8	3·0	— 1·6	SSW	SW	0·0	0·0	0·0	50	0·03
23	..	29·82[illegible]	73·0	51·4	61·5	50·2	94·0	43·8	64·1	62·3	11·3	15·4	2·8	— 0·3	SW	SW	0·0	0·0	0·0	65	0·00
24	..	29·638	70·7	54·0	60·5	54·0	79·5	51·3	64·5	62·3	6·5	11·8	4·8	— 1·4	SW	S; SSW	4·0	0·0	0·7	110	0·15
25	In Equator	29·671	72·8	51·7	60·5	50·2	93·5	44·2	64·7	62·7	10·3	15·5	3·4	— 1·4	SW	SW	3·0	0·0	0·8	150	0·00
26	..	29·700	67·5	53·5	58·8	53·6	77·5	46·0	64·2	63·1	5·2	8·5	3·0	— 3·2	SW	SW	5·0	0·0	1·3	160	0·01
27	Last Qr.	29·783	71·7	57·7	62·1	55·2	80·2	52·0	64·2	63·7	8·9	11·6	5·2	0·0	SSW	SW	0·0	0·0	0·0	35	0·00
28	..	29·661	70·0	57·5	60·5	57·1	79·0	55·0	64·2	63·9	3·4	8·6	2·7	— 1·7	Calm	W	0·0	0·0	0·0	70	1·11
29	..	29·746	70·5	53·5	60·7	51·7	85·2	50·0	64·2	..	9·0	14·8	1·4	— 1·5	SW	SW	3·0	0·0	0·6	140	0·07
30	Apogee	29·671	68·0	55·5	59·0	47·7	81·0	55·0	64·3	..	11·3	16·8	9·0	— 3·2	SW	SW	5·0	0·0	0·9	135	0·05
31	..	29·835	70·5	49·7	60·5	49·9	83·5	42·4	63·7	..	10·6	15·4	3·6	— 1·5	SW	SW	4·0	0·0	0·8	180	0·00
Aug. 1	..	29·736	77·0	58·3	61·4	49·7	96·0	56·2	..	..	11·7	18·0	4·4	— 0·8	SW	SW	3·0	0·0	0·2	75	0·01
2	Greatest Declination N.	29·792	73·0	56·7	63·4	52·9	89·5	51·8	64·2	..	10·5	14·0	3·2	+ 1·2	SW	Calm	0·0	0·0	0·0	5	0·00
3	..	29·841	74·0	54·4	62·7	53·0	92·2	49·2	64·7	..	9·7	15·0	1·2	+ 0·6	Calm	S	0·0	0·0	0·0	15	0·00
4	..	29·876	75·2	52·4	63·0	52·6	93·8	47·5	65·2	..	10·4	16·5	2·4	+ 0·9	Calm; N	N; Calm	0·0	0·0	0·0	10	0·00
5	New	29·989	70·8	46·5	59·3	50·7	85·0	39·8	65·2	..	8·6	12·8	2·2	— 2·8	Calm	N; Calm	0·0	0·0	0·0	5	0·00
6	..	30·062	72·9	48·2	60·9	51·2	87·5	43·0	64·9	..	9·7	13·2	2·6	— 1·1	Calm	Calm	0·0	0·0	0·0	10	0·00
7	..	30·030	71·0	50·4	59·6	50·1	84·0	45·0	65·6	..	9·5	15·0	3·0	— 2·4	N	N	0·0	0·0	0·0	15	0·00
8	..	30·049	76·0	52·6	62·2	52·8	91·4	41·7	65·8	..	9·4	15·0	2·5	+ 0·3	Calm; NE	SE	0·0	0·0	0·0	10	0·00
9	In Equator	30·10[illegible]	74·7	49·3	61·2	52·6	91·5	42·0	66·0	..	8·6	12·9	2·4	— 0·6	SE; NE	E; N	0·0	0·0	0·0	5	0·00
10	..	30·158	74·5	49·5	61·9	53·5	91·2	39·3	66·5	..	8·4	13·5	3·0	+ 0·1	NE	NE	0·0	0·0	0·0	20	0·00
11	..	30·102	75·0	50·5	63·0	54·0	91·7	41·0	66·5	..	9·0	15·8	3·4	+ 1·3	NE	E	0·0	0·0	0·0	15	0·00
12	First Qr.	30·064	71·8	51·5	59·8	51·0	90·4	38·8	66·4	..	8·8	15·0	3·0	— 1·8	NE	E	0·0	0·0	0·0	45	0·00
13	..	29·997	71·2	56·0	60·4	54·1	84·2	50·0	66·4	..	6·3	10·7	4·0	— 1·0	ENE	NNE	0·0	0·0	0·0	45	0·00
14	Perigee	29·891	67·4	55·8	59·0	53·1	72·5	49·0	65·9	..	5·9	10·7	3·0	— 2·3	N	NNE	0·0	0·0	0·0	60	0·00
15	Greatest Declination S.	29·869	65·2	54·0	57·3	50·3	73·0	47·2	65·9	..	7·0	11·8	5·6	— 4·0	NNE	NNE; Calm	0·0	0·0	0·0	10	0·00
16	..	29·555	65·5	53·0	58·9	55·7	72·5	44·8	65·7	..	3·2	7·6	0·9	— 2·2	Calm; SE	SE	0·0	0·0	0·0	105	0·27
17	..	29·513	72·8	54·0	60·4	52·1	90·0	49·0	65·7	..	8·3	14·0	2·6	— 0·6	SE	SW; NNE	2·0	0·0	0·0	45	0·03
18	Full	29·810	69·2	45·8	57·4	48·3	83·7	36·2	63·9	..	9·1	14·3	3·4	— 3·4	N	SW	0·0	0·0	0·0	20	0·01
19	..	29·772	77·5	54·9	65·0	59·2	91·8	47·0	64·2	..	5·8	15·4	3·4	+ 4·3	S	S; SW	0·0	0·0	0·0	75	0·00
20	..	29·740	75·5	59·0	64·5	60·7	84·2	54·0	64·5	..	3·8	11·0	2·6	+ 3·9	SW	SW	0·0	0·0	0·0	55	0·28
21	..	29·862	74·5	54·0	62·7	55·7	90·0	44·2	64·9	..	7·0	15·0	1·9	+ 2·3	SW	SW	0·0	0·0	0·0	50	0·00
22	In Equator	29·759	73·0	57·2	63·1	55·9	88·0	51·5	64·7	..	7·2	12·6	2·0	+ 2·8	Calm	N	0·0	0·0	0·0	10	0·02
23	..	29·634	62·3	55·0	57·0	54·7	66·0	56·2	65·2	..	2·3	5·4	0·0	— 3·2	ENE	NE	0·0	0·0	0·0	5	0·89
24	..	29·644	68·0	47·8	56·8	53·6	72·0	40·0	64·7	..	3·2	8·5	1·0	— 3·2	Calm	E	0·0	0·0	0·0	20	0·00
25	..	29·540	66·8	49·0	57·6	50·0	74·5	43·0	64·2	..	7·6	11·6	2·0	— 2·3	S	SSW	4·0	0·0	0·5	175	0·00

MONTH and DAY, 1853.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
June 28	s P, s N		10, ci.-s, sc, r	10, ci.-s, sc
29			5, cu, ci.-cu, ci.-s, sc	5, cu, ci.-cu, ci.-s, sc : 10
30		s P, s N	7, cu, cu.-s, n	7, cu, cu.-s, n : v, h-r
July 1	s P, s N	s P, s N	10, cu, cu.-s, n, h.-shs.-r	10, cu, cu.-s, n, h.-shs.-r
2			10, cu, cu.-s, sc, h	10, cu, cu.-s, sc, h : v
3			10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s
4			7, cu, cu.-s, ci	10, cu, cu.-s, ci
5			10, ci.-cu, ci.-s, sc	5, ci.-cu, ci.-s, sc : o
6			10, ci. cu, ci, li.-cl	10, ci.-cu, ci, li.-cl : v
7			5, cu, ci.-cu, ci	5, cu, ci.-cu, ci : h, t.-s
8			7, ci.-cu, s, sc	5, ci.-cu, s, sc : 10
9	s N, sps, g cur : o	o	10, ci.-s, sc, r	10, ci.-s, sc
10	o	o	10, s, ci.-s, sc, r	10, s, ci.-s, sc : 5
11	o	o	10, ci.-s, sc	v, ci.-s, sc
12	m	m	7, cu, ci.-cu, s	5, cu, ci.-cu, s : o
13	m	m	10, s, ci.-s	10, s, ci.-s : r
14	s N, sps, g cur	s N, sps, g cur	10, h.-r	10, h.-r
15	s P, sps	s N, sps. : o	10	10, h.-shs.-r, t
16	o	s N : o	10, h.-r	10, h.-r
17	o	o	5, cu.-s, ci.-s, sc	5, cu.-s, ci.-s, sc
18	s N, sps, g cur	s N, sps, g cur	9, cu.-s, ci.-s, sc, shs.-r	9, cu.-s, ci.-s, sc, shs.-r
19	o	o	10, cu, cu.-s, ci, r	5, cu, cu.-s, ci : o
20	o	o	o : 10. ci.-s, sc	10, ci.-s, sc
21	m	m	10, ci.-s	10, ci.-s
22	m	m	10, ci.-s, m.-r	10, ci.-s, m.-r : v
23	w	w	4, cu, ci.-cu, sc	4, cu, ci.-cu, sc
24	o	o	10, ci.-s, sc, r	10, ci.-s, sc, r
25	m	m : o	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : o
26	o	w	10, ci.-s, sc, r	10, ci.-s, sc, r
27	o	o	10, ci.-s	10, ci.-s : l
28	s N, s P, sps, g cur	s N, s P, sps, g cur	10, ci.-s, t.-s, h.-r	10, ci.-s : h.-r
29	s	s	o : 10, cu, cu.-s, ci	10, cu, cu.-s, ci : r
30	o	m	10, ci.-s, li.-cl, sc, shs.-r	o : 10
31	m	m	10, cu.-s, ci.-s, li.-cl	10, cu.-s, ci.-s, li.-cl
Aug. 1	o	v : o	10, cu, cu.-s, sc, r	v, cu, cu.-s, sc
2	w	o	10, cu, s, li.-cl	9, cu, s, li.-cl
3	o	w : o	10, cu, ci.-s, h	7, cu, ci.-s, h
4	o	o	10, cu, s	4, cu, s : o
5	v	v : o	10, cu.-s, s, h	10, cu.-s, s, h
6	s	s	10, cu.-s, s, h	10, cu.-s, s, h
7	m	o	7, cu, cu.-s	o
8	o	w	10, cu.-s, h	o
9	m	m	o	7 : o
10	v	v	10	7 : o
11	w	o	7	7 : 10
12	o	v	4	4 : 10
13	o	o	10	9 : 10
14	o	o	10	10
15	o	s : o	10	10
16	o	o	10	10, r
17	o	m : o	10, cu, ci.-s	5, cu, ci.-s : o
18			7, cu, s	7, cu, s : v
19			10, cu, ci.-cu, s	10, cu, ci.-cu, s
20			10, cu.-s, ci.-s, h.-r	v, cu.-s, ci.-s
21	o	o	o : v	v
22	o	o	10, ci.-s	10. ci.-s : r
23	o	o	10, h.-r	10
24	s	s	10, th.-f	10 : 5
25	s N, sps, g cur	s N, sps, g cur	10, ci.-s, sc, r	10, ci.-s, sc

MONTH and DAY, 1853.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wind. Well's. Amount of Horizontal Movement of the Air in each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	m.	in.
Aug. 26	Last Qr.	29·078	65·0	47·2	56·5	52·0	70·0	52·0	63·7	..	4·5	7·7	1·0	— 3·3	S	SSW	11·0	0·0	5·5	240	0·28
27	Apogee	29·286	64·8	49·0	56·3	49·1	68·7	44·2	62·9	..	7·2	12·0	5·0	— 3·3	SW	SW	9·0	0·0	3·0	250	0·31
28	..	29·563	66·5	49·2	56·0	49·0	76·8	40·0	61·9	..	7·0	12·0	4·0	— 3·5	W	WSW	4·0	0·0	0·5	85	0·05
29	Greatest Declination N.	29·692	68·0	46·2	56·7	49·7	85·5	38·0	61·3	..	7·0	15·5	0·5	— 2·6	WSW	W	2·0	0·0	0·1	100	0·00
30	..	29·831	70·2	47·7	57·6	49·1	88·0	39·3	60·9	..	8·5	13·6	0·7	— 1·6	WSW	SW	2·0	0·0	0·1	85	0·00
31	..	29·750	68·1	50·0	56·7	50·4	84·0	47·7	60·7	..	6·3	14·2	2·1	— 2·3	SW	W ; SW	2·5	0·0	0·2	90	0·00
Sept. 1	..	29·587	66·4	52·0	58·1	56·1	70·0	48·0	60·7	..	2·0	6·5	0·9	— 0·8	S	SSW	2·8	0·0	0·3	130	0·48
2	..	29·667	59·0	49·0	52·6	49·6	60·0	41·0	60·5	..	3·0	4·8	1·3	— 6·2	SSW ; N	N	3·0	0·0	0·4	175	0·30
3	New	30·037	61·3	45·0	52·5	46·3	70·0	47·0	59·9	..	6·2	9·9	2·8	— 6·0	NNW	N	2·5	0·0	0·2	105	0·20
4	..	30·209	67·7	52·0	56·5	49·9	75·0	47·0	59·7	..	6·6	12·3	4·4	— 1·9	NNE	NNE	2·5	0·0	0·5	140	0·00
5	In Equator	30·233	70·0	51·2	57·5	53·1	82·7	46·0	59·7	..	4·4	12·2	2·0	— 0·8	NNE	NE	1·8	0·0	0·1	50	0·03
6	..	30·144	72·0	45·0	58·1	49·7	85·8	38·0	59·7	..	8·4	14·1	2·3	+ 0·1	N	NE	4·5	0·0	0·5	70	0·00
7	..	29·968	59·2	46·8	52·6	46·8	63·5	38·8	59·2	..	5·8	9·9	4·4	— 5·3	N	N	2·0	0·0	0·1	45	0·00
8	Perigee	29·829	62·2	48·5	53·9	51·1	65·0	40·0	58·7	..	2·8	6·8	1·1	— 3·9	N	NNE	0·0	0·0	0·0	10	0·00
9	..	29·726	63·0	50·5	56·1	52·5	78·0	41·7	58·9	..	3·6	6·7	1·1	— 1·4	Calm	SE	0·0	0·0	0·0	75	0·12
10	First Qr.	29·661	67·0	53·4	58·1	55·2	71·0	43·4	58·7	..	2·9	8·4	1·0	+ 0·7	SSE	S ; Calm	0·0	0·0	0·0	30	0·02
11	Greatest Declination S	29·880	72·2	41·8	57·4	49·0	88·8	35·5	59·2	..	8·4	16·2	0·7	+ 0·1	Calm	SSW	0·0	0·0	0·0	50	0·00
12	..	29·852	69·8	51·0	61·3	55·0	77·8	43·8	59·7	..	6·3	8·5	2·1	+ 4·3	SE	S ; SE	0·0	0·0	0·0	75	0·00
13	..	29·938	62·4	49·0	52·8	49·0	65·8	50·0	59·9	..	3·8	9·2	2·0	— 4·0	SE ; NW	NW	0·0	0·0	0·0	60	0·08
14	..	29·917	69·2	40·5	55·8	48·4	84·2	37·5	60·1	..	7·4	14·1	0·0	— 0·9	Calm	SW	0·0	0·0	0·0	40	0·01
15	..	29·857	62·2	51·0	55·3	51·5	65·8	48·0	59·7	..	3·8	8·1	1·1	— 1·2	Calm ; E	NE	0·0	0·0	0·0	60	0·13
16	..	29·835	64·9	54·2	59·2	57·8	67·0	54·2	59·5	..	1·4	3·1	0·5	+ 1·2	Calm	NNE	0·0	0·0	0·0	20	0·35
17	Full	29·933	73·0	53·2	61·5	56·5	84·5	48·8	63·9	..	5·0	11·3	0·4	+ 5·4	NNE	NE	0·0	0·0	0·0	50	0·00
18	In Equator	30·062	69·3	44·7	57·2	53·0	72·8	38·3	60·1	..	4·2	10·2	0·0	+ 1·3	Calm	Calm ; N	0·0	0·0	0·0	60	0·00
19	..	30·057	70·2	43·4	57·9	50·3	86·5	38·1	60·2	..	7·6	12·0	1·6	+ 2·1	SW ; Calm	W	0·0	0·0	0·0	130	0·00
20	..	29·911	63·5	48·0	53·5	48·9	74·5	43·8	59·7	..	4·6	8·3	0·4	— 2·0	W v. Light	W v. Light	0·0	0·0	0·0	20	0·00
21	..	29·810	66·0	43·5	53·9	49·2	..	36·5	59·9	..	4·7	9·2	0·0	— 1·5	Calm	W	0·0	0·0	0·0	20	0·00
22	..	29·703	67·5	46·0	57·6	50·8	82·2	39·7	59·7	..	6·8	12·0	0·5	+ 2·3	SW v. Light	SW	3·0	0·0	1·0	170	0·00
23	Apogee	29·612	63·0	47·0	53·2	47·8	68·5	50·7	59·9	..	5·4	8·3	2·0	— 1·8	SW ; W	W ; SW	2·0	0·0	0·2	120	0·01
24	..	29·627	62·0	41·7	49·0	44·6	75·5	35·2	59·7	..	4·4	8·9	1·0	— 5·8	SW ; W	W	5·0	0·0	0·4	105	0·18
25	Last Qr.	29·060	64·8	40·8	52·3	48·1	67·0	34·7	58·2	..	4·2	10·3	0·4	— 2·4	S	S ; W	12·5	0·0	4·0	105	0·13
26	Greatest Declination N	29·639	57·8	44·0	49·5	39·6	69·0	39·0	57·2	..	9·9	14·0	1·6	— 4·9	W	NW	9·0	0·0	4·0	290	0·00
27	..	29·786	60·8	37·5	52·1	47·3	66·0	31·0	56·2	..	4·8	8·0	0·5	— 2·1	SW	SW	0·0	0·0	0·0	115	0·00
28	..	29·779	67·7	50·5	58·7	53·5	76·5	44·0	56·2	..	5·2	10·7	0·2	+ 4·7	WSW	SW	6·0	0·0	2·3	90	0·00
29	..	29·818	61·5	51·4	53·3	50·5	64·0	47·5	56·3	..	2·8	6·7	0·0	— 0·4	SW	SW	5·0	0·0	1·1	220	0·25
30	..	29·843	61·6	43·8	51·2	44·7	68·0	40·3	56·2	..	6·5	11·7	1·6	— 2·3	W	W	0·0	0·0	0·0	50	0·11
Oct. 1	..	29·530	60·4	40·6	49·5	46·0	58·5	36·2	55·7	..	3·5	7·2	0·0	— 3·8	W ; N	W by S	5·0	0·0	1·0	20	0·20
2	New In Equator.	29·756	55·5	36·0	45·7	37·4	66·5	30·0	54·7	..	8·3	11·0	1·0	— 7·4	WSW	WSW	0·0	0·0	0·0	80	0·00
3	..	29·956	56·0	31·7	44·1	36·5	67·0	25·8	53·7	..	7·6	11·0	5·1	— 8·7	WSW	NW ; S	0·0	0·0	0·0	85	0·01
4	..	29·705	55·0	38·3	48·4	46·0	54·5	31·8	53·2	51·2	2·4	5·0	0·0	— 4·2	SSW	S	4·8	0·0	2·2	135	0·20
5	Perigee	29·216	56·2	48·2	51·5	50·7	55·5	47·0	53·2	51·4	0·8	2·0	0·0	— 0·9	SSE	S ; Calm	4·0	0·0	1·0	40	0·43
6	..	29·281	50·7	41·3	45·5	45·5	50·5	35·5	53·2	51·5	0·0	0·2	0·0	— 6·7	Calm	Calm	0·0	0·0	0·0	10	0·02
7	..	29·308	60·0	44·1	51·6	47·1	65·0	39·1	53·1	51·5	4·5	8·9	0·0	— 0·4	Calm ; SW	Calm	0·0	0·0	0·0	0	0·08
8	..	29·376	60·8	49·2	53·3	51·7	62·5	46·8	53·1	51·5	1·6	5·5	0·0	+ 1·5	Calm	Calm	0·0	0·0	0·0	5	0·29
9	Greatest Dec. S. First Quarter.	29·563	63·8	41·5	51·6	50·4	71·0	35·5	53·2	51·8	1·2	5·3	0·0	+ 0·1	Calm	Calm	0·0	0·0	0·0	5	0·02
10	..	29·657	61·5	39·3	50·0	49·6	70·0	34·0	53·2	52·6	0·4	5·8	0·0	— 1·3	Calm	NE	0·0	0·0	0·0	10	0·01
11	..	29·594	58·0	47·0	51·9	49·1	63·0	42·0	53·2	53·0	2·8	5·7	0·0	+ 0·9	Calm	NE	0·0	0·0	0·0	5	0·01
12	..	29·550	57·8	48·9	52·1	50·9	58·0	41·9	53·7	53·0	1·2	2·6	0·0	+ 1·3	ENE	ENE	0·0	0·0	0·0	15	0·58
13	..	29·613	59·7	49·0	52·8	50·6	62·3	40·8	53·7	52·8	2·2	4·4	0·0	+ 2·2	ENE	E	0·0	0·0	0·0	25	0·05
14	..	29·604	63·8	48·5	54·1	50·9	72·5	46·0	53·7	52·8	3·2	8·5	0·0	+ 3·7	Calm	Calm	0·0	0·0	0·0	25	0·17
15	In Equator	29·510	61·5	42·2	51·4	47·0	68·6	34·4	53·7	53·4	4·4	10·6	1·3	+ 1·2	WSW ; SW	SW	4·5	0·0	0·6	120	0·10
16	..	29·283	55·5	41·5	43·4	45·2	56·0	39·7	53·7	53·7	0·2	4·0	0·0	— 4·5	WSW	NNE ; WSW	0·0	0·0	0·0	40	0·12
17	Full	28·999	57·5	38·4	47·2	44·3	60·0	31·8	53·7	..	2·9	7·6	0·9	— 2·6	S	SW	5·6	0·0	1·8	150	0·20
18	..	29·335	55·2	37·2	44·9	40·6	63·8	30·0	52·7	..	4·3	9·8	2·4	— 4·6	N	N ; Calm	0·0	0·0	0·0	50	0·01
19	..	28·895	53·5	39·0	47·0	46·3	52·0	39·2	51·7	..	0·7	3·5	0·6	— 2·3	SE	SE	3·0	0·0	1·2	15	0·59
20	..	29·503	56·5	42·0	47·6	43·2	58·5	40·7	51·2	..	4·4	8·9	2·2	— 1·4	WSW	W	3·0	0·0	1·0	180	0·08
21	Apogee	29·699	58·3	39·7	50·5	47·8	58·3	32·8	51·1	..	2·7	6·3	1·7	+ 1·7	SW	SW	8·0	0·0	3·2	260	0·02
22	..	29·786	64·5	54·3	57·6	53·6	69·0	50·0	52·3	..	4·0	8·8	1·0	+ 8·9	SW	S	6·3	0·0	2·2	170	0·08
23	Greatest Declination N	29·964	62·8	54·5	57·9	54·1	64·5	47·8	53·5	..	3·8	5·8	1·0	+ 9·5	SW	SW ; S	4·8	0·0	0·8	65	0·03

MONTH and DAY, 1853.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Aug. 26	s N, sps, g cur	s N, sps, g cur	10, cu, n, sc, h.-sqs.-r	10, cu, n, sc, h.-sqs.-r
27	o	m : o	10, h.-r	10 : o
28	s N, s P, sps, g cur	s N, s P, sps, g cur	v, cu, cu.-s, r	v, cu, cu.-s, n : o
28	m	o	10, cu, cu.-s, ci, r	5, cu, cu.-s, ci : o
30	s	s	7, cu.-s, ci.-s, sc	7, cu.-s, ci.-s, sc : 10
31	v	v	10, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s
Sept. 1	s	s	10, fr.-r	10, fr.-r : l, a
2	o	o	10, fr.-shs.-r	10, fr.-shs.-r : a
3	m	m : o	5	10
4	o	o : m	10	5
5	o	s P, sps, g cur	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s, r : o
6	o	m : o	7, shs.-r	7, shs.-r : o
7	o	m : o	10, ci.-s	10, ci.-s
8	m	m	10, ci.-s, th.-r	10, ci.-s, th.-r
9	o	s P, sps, g cur : o	10, s, ci.-s	7, s, ci.-s, r : 10
10	o	m : o	10, ci.-s	9, ci.-s, r : 10, ci.-s
11	s	s	o, th.-f	o : 7
12	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s
13	o	o : m	v, cu.-s, s, h, shs.-r	v, cu.-s, s, h : o
14	s	s	o	v, cu, cu.-s
15	v, sps	v, sps	10, fr.-shs.-r	10, fr.-shs. r
16	s	s : o	10, ci.-s, th.-f, fr.-shs.-r	10, ci.-s, fr.-shs.-r
17	o	m : o	10, cu, ci.-cu, s	5, cu, ci.-cu, s : o
18	m	m	o, h	o, h
19	m	m	o	o
20	s	s	10	o
21	s	s	2, h	2, h
22	m	m	v	v
23	m	m	o	o : 7
24	v	v	o : 5, r, t	10 : o
25	o	o	10, fr.-shs.-r	10, fr.-shs.-r
26	o	o	7	7 : o
27	o	o	10	10
28	o	o	10	10
29	o	o	10, th.-r	10, h.-r : f
30	o	o	10, r	10 : o
Oct. 1	o	w : o	10	10 : o
2	o	o	o	o
3	o	o	f : 7	o
4	o	o	10, th.-r	10, th.-r
5	o	o	10, r	10, r
6	o	o	10, th.-f	10, th.-f
7	o	o	10	10
8	o	o	f	f : t, l, h.-r : o, f
9	o	o	th.-f, r : o	o : th.-f
10			f : 10	10 : r
11			10, r	10
12			10, h.-r	10, h.-r : v
13			10, shs.-r	10, shs.-r
14			f : o	o
15			v	v : li.-cl, lu.-co
16			10, h.-r	10
17			10, r : 9 ci.-cu, ci.-s	10, ci.-cu, ci.-s
18			o : 5, ci, li.-cl	5, ci, li.-cl
19			10, r	10, r
20			7, ci.-s, h	7, ci.-s, h : o
21			10, r	10, r
22			10, ci.-s, li.-cl	3, ci.-s, li.-cl : o
23			10, r	10, r : v

MONTH and DAY, 1853.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Wind as deduced from Anemometers. Osler's. General Direction. P. M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Mean of 24 Obs.	Wheewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		In.	°	°	°	°	°	°	°	°	°	°	°	°			lbs	lbs	lbs.	miles.	in.
Oct. 24	..	29·843	63·2	48·0	56·4	52·4	67·5	38·3	54·2	..	4·0	6·5	0·0	+ 8·2	SSW	SSW	0·0	0·0	0·0	65	0·00
25	Last Qr.	29·691	63·5	50·2	56·1	52·9	68·0	43·2	54·7	..	3·2	6·5	0·4	+ 8·2	SE	SW	2·4	0·0	0·3	75	0·00
26	..	29·576	67·0	46·8	56·0	52·0	73·3	37·2	55·1	..	4·0	11·2	1·1	+ 8·3	SE ; S	S	2·7	0·0	0·1	115	0·19
27	..	29·513	63·5	52·4	57·5	52·9	65·7	45·4	57·7	54·2	4·6	7·0	0·8	+10·0	S	S	2·6	0·0	0·2	130	1·05
28	..	29·449	62·2	51·8	55·8	51·7	66·5	47·8	58·1	54·2	4·1	7·1	1·6	+ 8·5	SSE	SW	5·4	0·0	1·6	180	0·16
29	..	29·791	57·8	41·8	48·5	44·8	63·0	40·7	57·7	52·7	3·7	9·1	2·4	+ 1·5	SW ; W	Calm	3·6	0·0	0·1	40	0·03
30	In Equator	29·930	54·0	40·7	46·7	44·1	58·0	38·7	57·7	51·4	2·6	8·0	1·5	— 0·1	Calm	Calm	0·0	0·0	0·0	25	0·00
31	..	29·827	57·6	38·7	46·9	41·8	60·5	45·4	57·7	50·7	5·1	12·5	1·0	+ 0·4	SSE	SSE	2·8	0·0	0·4	115	0·01
Nov. 1	New	29·769	60·8	45·4	52·6	48·2	67·2	46·0	57·7	50·4	4·4	10·6	0·0	+ 6·3	SSE	S ; SW	0·8	0·0	0·1	120	0·00
2	Perigee	29·870	59·7	45·9	52·3	46·5	63·3	41·0	57·7	50·2	5·8	10·6	0·2	+ 6·2	S ; SW	Calm	3·8	0·0	0·7	25	0·00
3	..	29·931	57·8	41·0	49·7	48·9	58·0	43·8	58·2	50·0	0·8	3·4	0·0	+ 3·8	Calm	SE	0·0	0·0	0·0	85	0·00
4	..	29·809	54·0	43·8	47·8	46·1	59·0	35·8	58·5	49·5	1·7	4·0	0·0	+ 2·1	SE	SE	2·0	0·0	0·3	150	0·02
5	Greatest Declination S.	29·699	48·7	44·1	46·5	45·4	49·0	35·0	56·7	48·8	1·1	2·6	0·2	+ 1·1	SE	SE	2·8	0·0	0·5	105	0·00
6	..	29·873	58·8	44·2	52·5	52·1	59·2	..	..	48·0	0·4	3·6	0·0	+ 7·3	SSE ; Calm	Calm	0·0	0·0	0·0	10	0·06
7	..	30·138	55·0	47·2	51·4	49·6	56·5	..	..	49·2	1·8	4·0	0·0	+ 6·5	Calm	N	0·0	0·0	0·0	15	0·00
8	First Qr.	30·170	54·7	43·0	48·4	44·2	56·5	..	..	49·2	4·2	7·4	0·8	+ 3·6	Calm	W . N	5·0	0·0	0·2	110	0·00
9	..	30·392	50·0	34·8	41·1	36·8	51·5	..	..	48·7	4·3	10·5	3·5	— 3·4	NW ; SW	SW	0·0	0·0	0·0	85	0·00
10	..	30·229	51·5	35·4	42·8	39·7	54·5	38·0	..	48·5	3·1	8·0	1·6	— 1·5	SW	SW	0·0	0·0	0·0	20	0·00
11	..	30·183	48·5	34·5	40·3	39·3	51·0	26·8	..	48·3	1·0	3·3	0·0	— 3·7	Calm	NE	0·0	0·0	0·0	20	0·00
12	In Equator	30·102	50·2	35·6	43·6	41·5	50·5	30·5	..	46·0	2·1	5·7	0·5	— 0·1	NE	NE ; Calm	0·0	0·0	0·0	5	0·00
13	..	29·716	48·3	39·4	43·3	40·9	48·5	30·5	..	45·5	2·4	6·2	0·0	— 0·1	Calm	Calm ; NNE	0·0	0·0	0·0	5	0·02
14	..	29·596	43·8	36·8	39·9	38·7	44·0	28·2	..	45·0	1·2	6·4	0·5	— 3·3	NE	Calm ; WSW	0·0	0·0	0·0	5	0·00
15	Full	29·566	42·0	32·2	37·4	36·9	42·5	26·0	..	44·6	0·5	1·9	0·0	— 5·5	Calm	Calm ; NNE	0·0	0·0	0·0	30	0·08
16	..	29·603	45·5	32·8	38·8	36·5	46·3	30·2	..	44·1	2·3	8·5	0·5	— 4·0	N	SW	0·0	0·0	0·0	45	0·03
17	..	29·732	41·0	29·4	34·0	31·4	43·0	24·8	..	43·0	2·6	6·0	0·7	— 8·5	SW	NNW ; SW	0·0	0·0	0·0	35	0·00
18	Apogee	29·906	45·0	27·5	35·6	31·7	49·3	26·8	..	42·1	3·9	10·8	0·0	— 6·8	SW	SW	0·0	0·0	0·0	80	0·00
19	Greatest Declination N.	29·941	48·8	31·8	40·2	37·1	53·3	24·2	..	42·1	3·1	10·6	1·3	— 2·0	Calm	S	0·0	0·0	0·0	80	0·00
20	..	29·907	47·0	33·0	41·4	41·2	47·5	24·8	..	41·6	0·2	5·5	0·0	— 0·6	SSW	N	0·0	0·0	0·0	15	0·22
21	..	30·203	45·0	31·2	37·6	36·6	52·0	22·5	..	40·8	1·0	4·6	0·5	— 4·3	N	NNE	0·0	0·0	0·0	15	0·00
22	..	30·128	48·0	28·0	34·2	34·2	54·3	21·5	..	40·7	0·0	0·0	0·0	— 7·6	Calm	Calm	0·0	0·0	0·0	20	0·00
23	Last Qr.	30·104	36·3	25·8	29·9	29·9	40·0	22·2	..	39·3	0·0	0·8	0·0	—11·8	Calm	Calm	0·0	0·0	0·0	15	0·00
24	..	29·910	42·5	26·2	35·7	32·6	44·5	20·3	..	39·3	3·1	9·6	0·0	— 5·9	SSW	Calm	0·0	0·0	0·0	60	0·33
25	..	29·977	42·5	32·8	37·9	36·9	45·2	32·0	..	39·3	1·0	3·1	0·0	— 3·8	NW	NW	0·0	0·0	0·0	60	0·28
26	In Equator	29·759	45·8	38·4	40·4	39·4	43·0	30·2	..	39·8	1·0	3·1	0·0	— 1·4	NW	NW ; N	3·4	0·0	0·5	95	0·42
27	..	30·036	41·3	34·8	37·8	35·8	43·0	30·0	..	39·3	2·0	3·8	0·0	— 4·1	NNE	NW	0·0	0·0	0·0	30	0·00
28	..	30·069	45·2	33·4	40·4	37·5	48·0	27·2	..	40·3	2·9	5·5	1·0	— 1·5	SSE	S	0·0	0·0	0·0	95	0·00
29	..	29·939	45·5	36·2	40·6	39·2	47·0	34·5	..	40·5	1·4	4·6	0·0	— 1·3	SE	S	2·3	0·0	0·5	175	0·03
30	New	29·967	51·9	44·3	48·6	47·9	53·0	38·2	..	41·2	0·7	1·8	0·0	+ 6·8	S	SSE	0·0	0·0	0·0	65	0·02
Dec. 1	Perigee	29·949	50·8	34·5	41·5	40·5	51·0	45·0	..	41·6	1·0	3·5	0·0	— 0·2	SSE	ESE ; Calm	0·0	0·0	0·0	5	0·00
2	Greatest Declination S.	29·837	44·8	30·3	35·4	34·1	48·0	20·7	..	41·6	1·3	4·3	0·0	— 6·2	Calm	Calm	0·0	0·0	0·0	5	0·00
3	..	29·881	40·7	29·4	36·0	36·0	43·0	20·3	..	42·1	0·0	0·7	0·0	— 5·5	Calm	Calm	0·0	0·0	0·0	5	0·00
4	..	29·831	41·5	34·2	38·4	38·4	42·2	30·3	..	42·1	0·0	0·5	0·0	— 3·0	Calm	Calm	0·0	0·0	0·0	0	0·01
5	..	29·789	46·0	37·0	42·6	42·4	47·0	35·4	43·4	41·6	0·2	2·3	0·0	+ 1·3	Calm	Calm	0·0	0·0	0·0	0	0·00
6	..	29·933	44·0	37·7	40·8	39·1	45·0	36·0	43·4	42·5	1·7	2·2	0·7	— 0·3	NW	NW	0·0	0·0	0·0	5	0·00
7	First Qr.	29·991	44·3	39·0	41·4	39·7	45·3	37·0	44·0	43·0	1·7	2·2	0·2	+ 0·4	NW	N	0·0	0·0	0·0	15	0·00
8	..	30·107	43·0	34·4	38·4	36·4	43·3	31·6	43·0	41·6	2·0	4·8	0·3	— 2·4	Calm	N	0·0	0·0	0·0	15	0·00
9	In Equator	30·244	44·8	35·0	40·0	37·4	47·3	28·5	43·0	42·2	2·6	4·8	0·0	— 1·0	NNW	NE	0·0	0·0	0·0	60	0·08
10	..	30·115	41·8	33·8	36·9	32·6	43·3	27·9	43·0	41·6	4·3	5·0	2·9	+ 1·2	NE	NE	3·4	0·0	0·7	135	0·04
11	..	29·933	34·9	29·2	30·8	29·7	36·0	30·3	43·0	40·7	1·1	5·2	1·0	— 9·7	E	NE	0·0	0·0	0·0	35	0·00
12	..	29·765	35·2	29·2	32·3	28·3	37·0	28·5	40·8	39·5	4·0	8·3	2·6	— 8·0	NE	NE	0·0	0·0	0·0	40	0·00
13	..	29·384	46·0	30·3	40·1	37·9	49·5	23·3	40·5	39·3	2·2	4·6	1·9	— 0·1	NE	NE	2·5	0·0	0·2	110	0·00
14	..	29·177	46·0	30·9	38·4	35·4	49·5	33·2	40·4	38·8	3·0	4·6	2·5	— 1·6	NE	NE	4·0	0·0	0·5	120	0·00
15	Apogee. Full.	29·143	35·2	27·0	30·4	27·6	37·3	19·3	39·5	38·2	2·8	5·1	1·2	— 9·4	N	N	0·0	0·0	0·0	95	0·02
16	Greatest Declination N.	29·352	31·8	22·4	26·6	21·7	32·2	31·0	38·5	37·1	4·9	6·7	4·9	—13·0	NW	NW	0·0	0·0	0·0	90	0·07
17	..	29·827	35·5	24·3	30·4	25·4	36·0	23·0	37·6	36·6	5·0	6·1	1·5	— 9·0	SW	N ; Calm	0·0	0·0	0·0	35	0·03
18	..	29·487	33·5	27·8	30·2	27·0	34·0	27·0	37·0	34·5	3·2	3·7	2·6	— 9·1	SE	SE	0·0	0·0	0·0	20	0·00
19	..	29·452	32·5	27·0	29·9	23·9	35·0	26·0	37·0	34·0	6·0	11·6	3·1	— 9·2	SE	ENE	0·0	0·0	0·0	50	0·00
20	..	29·694	35·5	29·2	33·0	32·4	36·0	26·7	36·5	34·0	0·6	2·6	0·0	— 5·9	NE	NE	0·0	0·0	0·0	20	0·03
21	..	29·872	36·7	32·3	33·9	32·1	35·8	32·2	36·0	34·0	1·8	3·4	1·3	— 4·8	NE	NNE	0·0	0·0	0·0	70	0·01

MONTH and DAY, 1853.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Oct. 24			9, ci.-s, s, li.-cl	9, ci.-s, s, li.-cl
25	v	v	7, ci.-s	10, ci. s : o
26	m	o : m	5, ci.-cu, ci.-s	10, ci.-cu, ci. s, r
27	s	s	10, cu, ci.-s	10, cu, ci.-s : l, t
28	o	m : o	10, cu, ci.-cu, ci.-s	v, cu, ci.-cu, ci.-s : r
29	o	o	10, cu, cu.-s, ci.-s	10. cu, cu.-s, ci.-s
30	o	o	10	o
31	o	o	o	v : a
Nov. 1	o	o	o	o
2	o	o	7, ci.-s	10, ci.-s : o
3	s	s	10, ci.-cu, ci.-s, th.-f, r	7, ci.-cu, ci.-s, th.-f, r
4	o	m : o	o	7, ci.-s, s, h
5	o	o	10, ci.-s	10, ci.-s : v, l
6	m	m	10, ci.-s, m.-r	10, ci. s, m.-r
7	s	s	10, th.-f	10
8	s	s	10, s, ci.-s, f	10, s, ci. s, so.-ha : o
9	s, sps	s, sps	10	7 : o lu.-ha
10	s, sps	s, sps	7, ci.-cu, ci.-s	o
11	s	s	10, s, so.-ha, f	10, s : o
12	s, sps	s, sps	10	10 : v. th.-f
13	s	s	9, ci.-s, r	9, ci.-s
14	s, sps	s	10, ci.-s, th.-f	10, ci.-s
15	s	s	10, ci.-s	10, ci.-s, r
16	s, sps	s	10, cu, ci.-cu, ci.-s, th.-f	10, cu, ci.-cu, ci.-s : o
17	s, sps	s, sps	10, s, ci.-s, f	7, s, ci.-s : o
18	s	s	o, h	o, h
19	s	s, sps	2, li.-cl	o : f
20	s	s	10, r	10, r
21	s, sps	s, sps	th.-f	o
22	s, sps	s, sps	th.-f : 9	7 : th.-f
23	s, sps	s, sps	f	f
24	s	s, sps	10	10. r : sn
25	s	s	9, ci.-cu, s, ci.-s	9, ci.-cu, s, ci.-s : r
26	s	s	10, r	10, r
27	s	s	10, m.-r	10, m.-r
28	s	s	10	10
29	s	s	10	10, r
30	s	s	10, m.-r	10, m.-r
Dec. 1	s	s	10, s, ci.-s, li.-cl	10, s, ci.-s, li.-cl : c
2	s	s	o	o
3	s, sps, g cur	s, sps, g cur	10, th.-f	10, th.-f
4	s, sps	s	10, th.-f	10.
5	s, sps	s, sps	7, f	10, f
6	s	s	10	10 : a
7	s	s	10	10
8	s	s, sps	7, ci.-cu, ci.-s	10, ci.-cu, ci.-s : f
9	s	s	10, r	10 : r
10	s	s	10, ci.-cu, s, ci.-s	8, ci.-cu, s : 10
11	s	s	10	10
12	s, sps	s	10, ci.-cu, ci.-s : sn	8, ci.-cu, li.-cl : 10
13	s	s	10, s, ci.-s, i.-cl	10, s, ci.-s, li.-cl
14	s	s	7	10, sn
15	s	s	10, sn	10, sn
16	s	s	sn : 7	o : 5
17	s	s	9, sn, ci.-cu, ci.-s	9, sn, ci.-cu, ci.-s
18	v	v	9, ci.-s, li. cl	10, ci.-s, li.-cl
19	v	v	5, s, ci.-s, li.-cl	5, s, ci. s, li.-cl : 10
20	v	v	10, sn, sl	10. sn, sl
21	v	v	10, sl	10. sl

MONTH and DAY, 1853.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest on the Grass, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Wind as deduced from Anemometers. Osler's. General Direction. P. M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Dec. 22	..	29·033	36·0	32·2	34·2	31·9	36·1	32·0	36·0	34·2	2·3	5·2	0·6	— 4·3	NE	NE	4·0	0·0	0·6	115	0·02
23	Last Qr.	29·738	41·0	32·4	36·7	33·4	41·5	28·0	36·0	34·2	1·5	4·3	0·5	— 1·5	W; NW	NW	1·6	0·0	0·2	120	0·04
24	In Equator.	29·999	36·3	27·7	33·8	31·5	37·0	28·8	36·2	34·5	2·3	3·2	1·7	— 4·4	ENE	NE	0·0	0·0	0·0	30	0·00
25	..	30·096	36·5	25·3	30·2	25·6	38·3	20·5	36·0	35·8	4·6	7·8	2·0	— 7·8	N	Calm	0·0	0·0	0·0	..	0·00
26	..	30·002	35·2	20·0	27·7	26·6	36·0	13·2	36·0	35·4	1·1	3·1	0·8	—10·1	Calm	NW	0·0	0·0	0·0	..	0·00
27	..	29·716	33·0	25·3	29·3	22·3	33·7	19·5	36·0	34·7	7·0	11·5	3·2	— 8·3	NW	NW	2·0	0·0	0·1	..	0·00
28	..	29·850	34·8	25·5	28·9	25·4	35·0	18·0	35·5	34·7	3·5	5·3	2·9	— 8·5	NNW	N	3·0	0·0	0·4	..	0·00
29	Perigee.	30·091	31·5	18·0	24·1	19·7	33·0	11·0	35·2	33·3	4·4	9·2	3·4	—13·2	N	N; WSW	0·0	0·0	0·0	30	0·00
30	New. Greatest Decl. S.	29·503	38·5	26·0	32·7	28·0	40·3	15·0	33·6	33·2	4·7	5·5	1·3	— 4·3	WSW	NW	4·0	0·0	0·2	115	0·08
31	..	29·507	35·9	25·0	29·9	25·3	38·0	14·0	33·5	33·2	4·6	6·1	3·5	— 6·8	W	WSW	0·0	0·0	0·0	75	0·08

MONTH and DAY, 1853.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Dec. 22	v	v	10	10
23	v	v	10, r	10
24	v	v	9, ci.-cu, ci.-s	9, ci.-cu, ci.-s
25	v	v	0	0
26	v	v	3, ci.-s, li	10, ci.-s
27	v	v	0	10, ci.-s, li.-cl
28	v	s, sps	0	10, sn
29	s, sps	s, sps	0	0
30	s, sps	s, sps	10, r	10, sn
31	s, sps	s, sps	0	10 : sn

MAXIMA AND MINIMA READINGS OF THE BAROMETER.

The following table contains the highest and lowest readings of the Barometer, reduced to 32° Fahrenheit, extracted from the observations taken by the eye. There is good reason to believe that these readings do not differ much from the true maxima and minima, although the times may sometimes be sensibly erroneous.

MAXIMA.			MINIMA.			MAXIMA.			MINIMA.		
Approximate Mean Solar Time, 1853.		Reading.	Approximate Mean Solar Time, 1853.		Reading.	Approximate Mean Solar Time, 1853.		Reading.	Approximate Mean Solar Time, 1853.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	9. 8. 0	29·634	January	7. 3. 0	29·064	June	23. 21. 0	29·714	June	20. 9. 0	29·489
	11. 9. 0	29·536		10. 9. 0	29·211	July	3. 1. 0	30·112		28. 9. 0	29·483
	14. 9. 0	29·730		13. 9. 0	29·208		11. 21. 0	29·905	July	7. 9. 0	29·744
	18. 21. 0	29·889		16. 7. 30	28·984		19. 9. 0	29·839		14. 0. 0	29·162
	23. 21. 0	30·077		21. 9. 0	29·230		23. 0. 0	29·845		22. 3. 0	29·590
	31. 9. 0	30·123		26. 3. 0	29·551		26. 21. 0	29·815		24. 5. 0	29·625
February	5. 9. 0	29·757	February	3. 21. 0	29·426	August	9. 21. 0	30·182		29. 21. 0	29·627
	14. 9. 0	29·732		9. 3. 0	28·889		20. 18. 30	29·879	August	16. 9. 0	29·401
	21. 9. 0	30·007		18. 0. 0	29·378		30. 0. 0	29·863		26. 9. 0	28·957
	23. 21. 0	29·750		23. 3. 0	29·281	September	5. 9. 0	30·250	September	1. 9. 0	29·545
	27. 21. 0	29·810		26. 3. 0	28·872		18. 21. 0	30·137		9. 21. 0	29·634
March	3. 21. 0	30·019	March	2. 3. 0	29·274		30. 0. 0	29·893		25. 4. 0	29·001
	10. 9. 0	30·096		5. 3. 0	29·659	October	3. 9. 0	29·998	October	1. 3. 0	29·507
	19. 0. 0	30·048		13. 21. 0	29·422		9. 21. 0	29·688		5. 3. 0	29·152
	28. 9. 0	30·058		21. 3. 0	29·675		18. 3. 0	29·361		17. 3. 0	28·929
April	2. 9. 0	29·796	April	1. 3. 0	29·271		23. 8. 30	30·012		19. 3. 0	28·831
	5. 9. 0	29·853		3. 10. 30	29·439		30. 22. 0	29·963		28. 0. 0	29·418
	9. 0. 0	30·170		7. 3. 0	29·595	November	9. 0. 0	30·414	November	5. 3. 0	29·683
	15. 0. 0	30·027		12. 21. 0	29·791		21. 9. 0	30·229		15. 3. 0	29·555
	23. 9. 0	29·740		22. 3. 0	29·195		24. 21. 0	30·011		24. 3. 0	29·877
	26. 21. 0	29·752		24. 21. 0	29·163		27. 21. 0	30·076		26. 0. 0	29·715
May	4. 9. 0	30·015		29. 3. 0	29·494	December	9. 9. 0	30·277	December	2. 3. 0	29·830
	10. 21. 0	29·970	May	9. 3. 0	29·350		17. 9. 0	29·626		15. 3. 0	29·141
	22. 9. 0	29·992		16. 9. 0	29·556		22. 9. 0	30·016		18. 21. 0	29·423
June	2. 21. 0	30·033		26. 3. 0	29·451		24. 22. 45	30·105		23. 3. 0	29·697
	7. 21. 0	29·961	June	5. 2. 45	29·756		28. 21. 0	30·149		27. 3. 0	29·763
	15. 9. 0	29·938		11. 9. 0	29·595					31. 9. 0	29·423

READINGS OF THERMOMETERS SUNK IN THE GROUND.

(I.)—Reading of a Thermometer whose bulb is sunk to the depth of 25·6 feet (24 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Days of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·88	51·34	50·78	50·00	*S*	48·75	48·90	49·48	50·34	51·15	51·82	51·85
2	*S*	51·34	50·78	50·02	49·19	48·75	48·88	49·53	50·34	*S*	51·85	51·83
3	51·87	51·31	50·75	*S*	49·15	48·80	*S*	49·55	50·37	51·17	51·80	51·82
4	51·84	51·30	50·74	49·94	49·14	48·77	48·90	49·56	*S*	51·22	51·80	*S*
5	51·85	51·28	50·76	49·88	49·10	*S*	48·94	49·60	50·40	51·23	51·84	51·82
6	51·83	*S*	*S*	49·89	49·06	48·74	48·94	49·63	50·48	51·23	*S*	51·85
7	51·82	51·28	50·73	49·85	49·07	48·75	48·98	*S*	50·50	51·28	51·83	51·85
8	51·79	51·22	50·70	49·80	*S*	48·75	48·96	49·68	50·53	51·31	51·83	51·81
9	*S*	51·20	50·64	49·80	49·04	48·74	48·96	49·70	50·57	*S*	51·83	51·80
10	51·77	51·22	50·63	*S*	49·01	48·74	*S*	49·74	50·60	51·29	51·83	51·80
11	51·72	51·18	50·59	49·74	48·95	48·80	48·98	49·79	*S*	51·38	...	*S*
12	51·76	51·07	50·59	49·75	48·94	*S*	49·03	49·77	50·67	51·40	51·85	51·75
13	51·72	*S*	*S*	49·71	48·93	48·75	49·04	49·80	50·70	51·42	*S*	51·76
14	51·70	51·10	50·54	49·65	48·93	48·78	49·04	*S*	50·72	51·45	51·82	51·79
15	51·69	51·06	50·48	49·62	*S*	48·75	49·12	49·85	50·77	51·48	51·81	51·71
16	*S*	51·07	50·44	49·63	48·94	48·75	49·13	49·87	50·77	*S*	51·83	51·72
17	51·74	51·07	50·39	*S*	48·93	48·75	*S*	49·90	50·82	51·50	51·80	51·68
18	51·62	51·00	50·37	49·60	48·92	48·78	49·14	49·92	*S*	51·53	51·85	*S*
19	51·60	51·03	50·38	49·54	48·92	*S*	49·15	49·97	50·85	51·55	51·87	51·65
20	51·63	*S*	*S*	49·49	48·85	48·75	49·19	50·00	50·87	51·55	*S*	51·79
21	51·60	50·98	50·33	49·45	48·85	48·79	49·22	*S*	50·90	51·62	51·85	51·65
22	51·55	50·97	50·25	...	*S*	48·75	49·24	50·03	50·97	51·66	51·80	51·64
23	*S*	50·97	50·24	49·40	48·83	48·77	49·30	50·05	50·98	*S*	51·82	51·63
24	51·53	50·93	50·22	*S*	48·84	48·80	*S*	50·08	51·00	51·67	51·82	51·60
25	51·51	50·92	...	49·35	48·83	48·82	49·30	50·12	*S*	51·68	51·83	Christ. Day
26	51·45	50·87	50·18	49·37	48·82	*S*	49·33	50·14	51·04	51·70	51·83	51·55
27	51·44	*S*	*S*	49·29	48·82	48·86	49·35	50·14	...	51·70	*S*	51·53
28	51·43	50·82	50·12	49·28	48·78	48·85	49·37	*S*	...	51·73	51·85	51·55
29	51·40		50·12	49·27	*S*	48·87	49·40	50·23	51·12	51·78	51·86	51·47
30	*S*		50·05	49·27	48·77	48·88	49·42	50·25	51·14	*S*	51·86	51·50
31	51·36		50·04		48·75		*S*	50·39		51·82		51·45

The letter *S* denotes that the day was Sunday.

March 25, Good Friday, April 22, September 27, 28, and November 11, the instruments were not read.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean of the readings at noon was found in twelve instances to be greater by 0°·01, than the monthly mean; in one instance the excess was 0°·2, and in another case it amounted to 0°·03. In all the remaining cases, the means of the noon observations agreed precisely with the means of all the observations.

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12·8 feet (12 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Days of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·10	49·48	47·32	46·16	*S*	47·74	50·58	53·20	54·80	55·00	53·93	52·04
2	*S*	49·45	47·44	46·10	46·28	47·85	50·67	53·25	54·78	*S*	53·96	51·90
3	51·06	49·40	47·34	*S*	46·30	48·11	*S*	53·30	54·83	54·95	53·85	51·75
4	50·97	49·34	47·27	45·92	46·33	48·20	50·82	53·35	*S*	54·95	53·83	*S*
5	51·00	49·25	47·30	45·85	46·33	*S*	50·93	53·40	54·91	54·95	53·82	51·64
6	50·94	*S*	*S*	45·88	46·33	48·30	50·98	53·44	54·87	54·87	*S*	51·82
7	50·92	49·25	47·15	45·83	46·45	48·48	51·15	*S*	54·94	54·90	53·72	51·45
8	50·83	49·05	47·05	45·78	*S*	48·55	51·12	53·55	54·99	54·90	53·66	51·27

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12 French feet—*continued.*

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
9	*S*	49·04	46·85	45·80	46·51	48·62	51·20	53·60	55·00	*S*	53·62	51·17
10	50·74	49·02	46·78	*S*	46·57	48·68	*S*	53·65	55·00	54·83	53·60	51·07
11	50·64	48·93	46·70	45·78	46·57	48·92	51·34	53·77	*S*	54·81	...	*S*
12	50·68	48·87	46·75	45·90	46·58	*S*	51·43	53·75	55·50	54·75	53·55	50·85
13	50·61	*S*	*S*	45·92	46·62	49·00	51·52	53·82	55·03	54·72	*S*	50·78
14	50·54	48·70	46·60	45·85	46·65	49·12	51·95	*S*	55·04	54·70	53·39	50·81
15	50·49	48·58	46·47	45·83	*S*	49·14	52·47	53·92	55·12	54·66	53·34	50·58
16	*S*	48·54	46·44	46·00	46·90	49·24	52·45	53·95	55·04	*S*	53·30	50·59
17	50·38	48·55	46·44	*S*	46·94	49·30	*S*	54·05	55·06	54·53	53·20	50·42
18	50·32	48·40	46·38	46·05	46·97	49·45	52·40	54·10	*S*	54·50	53·22	*S*
19	50·24	48·42	46·43	45·97	47·02	*S*	52·48	54·10	55·05	54·45	53·19	50·28
20	50·27	*S*	*S*	45·95	46·90	49·54	52·50	54·24	55·00	54·45	*S*	50·30
21	50·20	48·27	46·40	46·00	46·95	49·72	52·55	*S*	55·04	54·40	53·02	50·12
22	50·12	48·22	46·27	...	*S*	49·74	52·60	54·36	55·10	54·42	52·88	50·05
23	*S*	48·14	46·27	46·05	47·08	49·84	52·72	54·35	55·07	*S*	52·85	49·97
24	50·02	48·03	46·25	*S*	47·14	50·00	*S*	54·42	55·05	54·30	52·74	49·84
25	49·97	47·96	...	46·08	47·70	50·10	52·76	54·48	*S*	54·27	52·60	Christ. Day
26	49·83	47·89	46·22	46·20	47·27	*S*	52·90	54·48	55·04	54·24	52·58	49·65
27	49·74	*S*	*S*	46·10	47·35	50·30	52·85	54·55	...	54·15	*S*	49·55
28	49·70	47·60	46·19	46·18	47·45	50·37	52·90	*S*	...	54·10	52·38	49·52
29	49·65		46·26	46·27	*S*	50·45	52·95	54·65	55·04	54·08	52·29	49·34
30	*S*		46·14	46·33	47·58	50·53	53·04	54·74	55·04	*S*	52·19	49·28
31	49·54		46·10		47·68		*S*	54·75		54·01		49·16

The letter *S* denotes that the day was Sunday.

May 25. The reading seems to be too high by 0·5

September 12. The reading seems to be too high by 0°·5; probably it should be 55°·05.

October 1. The reading has been altered conjecturally from 54°·00 to 55°·00.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be of the same value in three cases as the monthly mean of all the readings; in five cases it was in excess by 0·01; in seven cases the excess amounted to 0°·02; in four cases to 0°·03; and in one case to 0°·04.

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6·4 feet (6 French feet) below the surface of the soil, at Noon on every day, except Sundays.

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	49·28	46·64	43·28	43·30	*S*	51·68	...	58·00	58·85	56·75	54·20	48·30
2	*S*	46·58	43·20	43·45	46·30	51·80	55·15	58·10	58·80	*S*	54·17	48·20
3	49·20	46·49	43·10	*S*	46·48	52·00	*S*	58·20	58·70	56·55	53·97	48·20
4	49·10	46·38	43·02	43·67	46·60	52·02	55·54	58·30	*S*	56·46	53·80	*S*
5	49·18	46·20	43·04	43·72	46·85	*S*	55·58	58·30	58·60	56·30	53·72	48·22
6	49·13	*S*	*S*	44·00	47·05	52·10	55·69	58·40	58·50	56·02	*S*	48·10
7	49·10	46·10	42·95	44·20	47·30	52·27	55·83	*S*	58·40	55·90	53·50	48·02
8	48·97	45·88	43·00	44·40	*S*	52·33	55·90	58·50	58·30	55·74	53·38	47·87
9	*S*	45·80	43·00	44·67	47·54	52·40	56·00	58·60	58·20	*S*	53·28	47·82
10	48·79	45·81	43·20	*S*	47·64	52·50	*S*	58·75	58·10	55·45	53·22	47·78
11	48·59	45·70	43·38	45·07	47·60	52·93	56·40	59·00	*S*	55·38	...	*S*
12	48·58	45·62	43·58	45·22	47·62	*S*	56·67	59·00	58·00	55·13	53·00	47·60
13	48·48	*S*	*S*	45·31	47·60	53·03	56·80	59·10	57·90	55·09	*S*	47·55
14	48·39	45·38	43·70	45·34	47·67	53·39	57·43	*S*	57·90	55·07	52·48	47·50
15	48·28	45·20	43·85	45·40	*S*	53·58	57·85	59·15	58·00	55·05	52·28	47·20
16	*S*	45·10	44·00	45·53	47·88	53·68	57·92	59·20	57·90	*S*	52·08	47·13
17	48·19	45·06	44·08	*S*	47·98	53·87	*S*	59·20	57·85	55·00	51·80	46·90
18	48·09	44·82	44·19	45·63	48·18	53·97	58·00	59·15	*S*	54·97	51·71	*S*
19	47·95	44·75	44·29	45·60	48·38	*S*	57·95	59·10	57·80	54·85	51·52	46·58

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6 French feet—*continued*.

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d												
20	47·95	*S*	*S*	45·70	48·67	54·18	57·90	59·10	57·80	54·85	*S*	46·50
21	47·80	44·43	44·18	45·78	48·86	54·50	57·90	*S*	57·70	54·55	50·90	46·20
22	47·68	44·28	44·00	...	*S*	54·45	57·90	59·20	57·70	54·48	50·60	46·02
23	*S*	44·13	43·88	46·02	49·47	54·33	57·92	59·20	57·68	*S*	50·30	45·87
24	47·60	43·95	43·70	*S*	49·73	54·65	*S*	59·25	57·67	54·20	50·00	45·70
25	47·52	43·80	...	46·18	50·00	54·53	57·90	59·20	*S*	54·20	49·80	Christ. Day
26	47·37	43·70	43·68	46·34	50·25	*S*	57·90	59·15	57·63	54·20	49·30	45·68
27	47·24	*S*	*S*	46·27	50·38	54·33	57·90	59·10	...	54·20	*S*	45·20
28	47·12	43·28	43·47	46·25	50·78	54·92	57·80	*S*	...	54·10	48·68	45·18
29	47·00		43·44	46·25	*S*	55·05	57·95	59·00	57·00	54·10	48·58	44·92
30	*S*		43·55	46·25	51·34	55·18	57·95	58·95	56·90	*S*	48·42	44·80
31	46·77		43·32		51·50		*S*	58·90		54·26		44·60

The letter *S* denotes that the day was Sunday.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be higher than the monthly mean reading, as found from all observations, by 0°·03.

(IV.)—Reading of a Thermometer whose bulb is sunk to the depth of 3·2 feet (3 French feet) below the surface of the soil, at Noon on every Day, except Sundays.

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d												
1	46·70	42·80	38·38	40·70	*S*	54·60	...	60·80	59·84	56·40	52·70	44·22
2	*S*	42·50	38·28	41·60	46·35	54·30	58·50	61·00	59·68	*S*	52·52	44·74
3	47·02	42·12	38·17	*S*	46·50	54·30	*S*	61·37	59·50	55·47	52·20	44·42
4	47·00	42·00	38·20	42·50	47·78	54·23	58·40	61·70	*S*	54·80	52·05	*S*
5	46·95	41·90	38·44	43·20	48·18	*S*	58·60	61·89	59·03	54·30	51·92	43·97
6	46·90	*S*	*S*	43·85	48·29	54·50	59·00	61·98	59·10	54·15	*S*	43·97
7	46·58	41·95	39·71	44·45	48·34	54·70	59·52	*S*	58·98	54·05	51·61	44·11
8	46·20	41·80	40·53	44·90	*S*	54·90	60·10	61·90	58·90	54·00	51·70	44·12
9	*S*	41·70	40·87	44·90	48·00	55·40	60·70	62·00	58·80	*S*	51·64	44·18
10	45·67	41·70	41·17	*S*	47·36	55·90	*S*	62·08	58·77	54·10	51·08	44·08
11	45·45	41·60	41·38	44·58	47·10	56·60	61·00	62·15	*S*	54·05	...	*S*
12	45·74	41·42	41·79	44·75	47·15	*S*	60·87	62·15	58·68	54·12	49·69	43·38
13	45·90	*S*	*S*	44·92	47·20	57·20	60·92	62·20	58·63	54·20	*S*	42·88
14	45·92	40·80	42·10	44·70	47·50	57·13	61·11	*S*	58·72	54·30	49·00	42·70
15	45·67	40·47	42·40	44·52	*S*	56·90	61·22	62·10	58·50	54·41	48·70	42·47
16	*S*	40·20	42·38	44·53	48·57	57·00	60·33	61·90	58·40	*S*	48·30	42·22
17	45·08	40·00	42·27	*S*	49·30	57·50	*S*	61·78	58·50	54·09	47·90	41·70
18	44·85	39·60	41·88	44·94	50·18	57·78	59·78	61·58	*S*	53·52	47·35	*S*
19	44·40	39·43	41·39	45·30	50·94	*S*	59·60	61·50	58·68	53·10	46·55	41·08
20	44·39	*S*	*S*	45·67	51·40	57·77	59·67	61·55	58·40	53·10	*S*	40·90
21	44·73	38·90	40·50	45·87	51·40	57·50	59·78	*S*	58·38	52·53	45·65	40·58
22	44·85	38·73	40·10	...	*S*	57·20	59·90	61·94	58·25	52·50	45·28	40·38
23	*S*	38·60	40·00	45·85	52·60	57·10	60·20	61·87	58·13	*S*	44·87	40·28
24	44·28	38·47	39·88	*S*	52·98	57·38	*S*	61·80	58·00	53·17	44·80	40·20
25	43·94	38·38	...	45·57	53·50	57·70	60·40	61·50	*S*	53·42	44·00	Christ. Day
26	43·66	38·45	39·72	45·12	54·10	*S*	60·42	61·19	57·13	53·62	43·44	39·90
27	43·30	*S*	*S*	44·78	54·70	58·28	60·48	60·90	...	53·67	*S*	39·60
28	43·10	38·40	39·57	45·78	55·00	58·30	60·55	*S*	...	53·90	43·60	39·43
29	43·00		39·90	45·50	*S*	58·45	60·72	60·19	56·30	54·10	43·72	39·05
30	*S*		39·98	45·24	55·00	58·60	60·70	60·00	56·50	*S*	43·78	38·85
31	42·90		40·10		54·78		*S*	59·88		53·38		38·45

The letter *S* denotes that the day was Sunday.

April 27. The reading seems to be erroneous.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean reading at noon, in the months from April to September, was found to be 0°·08 higher than the mean of the same months from all the observations, and in the remaining months the excess was 0·03.

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of one inch below the surface of the soil, within the box which covers the tops of the deep-sunk Thermometers, at Noon on every Day, except Sundays.

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	48·8	37·0	36·5	49·0	*S*	56·0	...	65·0	62·0	63·8	53·0	48·0
2	*S*	38·0	38·0	47·5	55·0	56·2	60·2	66·5	59·0	*S*	53·2	40·5
3	47·8	39·0	38·0	*S*	54·0	58·5	*S*	67·2	57·0	58·5	51·0	38·5
4	47·7	40·0	36·8	50·0	53·0	66·8	64·8	66·5	*S*	60·8	51·0	*S*
5	47·3	39·0	43·0	49·3	53·0	*S*	63·6	65·4	62·0	64·0	49·7	43·2
6	45·5	*S*	*S*	53·0	50·0	62·0	67·5	65·7	61·0	50·8	*S*	43·0
7	47·9	40·8	46·8	50·7	48·0	60·0	69·0	*S*	58·0	53·0	53·0	44·0
8	44·0	39·5	45·0	46·7	*S*	65·0	49·8	65·7	58·8	55·8	51·8	41·3
9	*S*	39·0	43·0	44·5	47·0	64·5	67·7	66·6	60·8	*S*	46·0	43·0
10	46·4	39·0	46·0	*S*	45·0	63·0	*S*	65·5	62·0	51·8	48·0	41·0
11	46·0	36·8	43·8	47·5	49·0	69·5	63·0	65·8	*S*	54·8	...	*S*
12	49·0	36·5	43·7	49·0	50·0	*S*	65·2	63·8	63·0	54·8	46·0	37·5
13	46·0	*S*	*S*	45·0	49·8	57·8	65·4	65·2	58·0	54·8	*S*	39·8
14	43·3	36·0	50·0	47·0	53·0	60·5	58·7	*S*	58·0	55·5	44·8	42·0
15	45·5	35·0	52·3	45·0	*S*	64·0	61·7	63·0	59·5	54·7	43·0	38·0
16	*S*	35·0	43·0	48·0	58·6	63·5	62·2	63·0	61·0	*S*	44·8	34·3
17	42·3	35·4	38·0	*S*	58·5	66·5	*S*	63·0	63·0	50·7	39·0	33·5
18	40·5	33·8	36·0	50·8	59·5	62·5	62·0	63·0	*S*	50·0	38·7	*S*
19	43·0	35·6	35·9	51·3	62·0	*S*	63·0	66·0	59·0	50·5	41·8	33·5
20	48·8	*S*	*S*	49·0	58·0	58·0	63·0	67·0	57·8	50·5	*S*	36·5
21	46·6	35·0	37·7	46·8	57·0	60·8	63·0	*S*	57·7	52·0	41·0	37·8
22	41·5	34·5	37·0	...	*S*	60·0	64·0	67·0	58·8	56·6	38·5	36·4
23	*S*	37·0	38·0	45·5	62·0	62·0	64·8	63·0	63·2	*S*	37·0	38·0
24	40·5	35·2	37·6	*S*	53·0	66·5	*S*	62·0	65·3	55·5	38·5	38·0
25	40·8	37·5	...	42·0	64·0	62·7	63·8	63·0	*S*	57·8	39·1	Christ. Day
26	40·0	38·5	37·2	44·6	63·0	*S*	63·0	62·0	64·2	57·5	41·8	31·3
27	39·0	*S*	*S*	44·0	66·7	64·0	64·0	61·5	...	57·2	*S*	34·0
28	42·0	36·0	43·0	49·0	63·0	63·3	64·8	*S*	...	58·0	42·0	33·6
29	41·0		50·7	40·0	*S*	63·4	64·0	55·0	59·0	54·0	41·5	30·0
30	*S*		43·0	50·0	58·8	63·5	63·0	61·0	58·0	*S*	48·0	35·8
31	41·0		45·5		57·5		*S*	62·0		50·0		34·0

The letter *S* denotes that the day was Sunday.

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers, whose bulb is placed on a level with the scales of the other Thermometers, at Noon on every day, except Sundays.

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	50·0	33·0	35·0	54·0	*S*	56·3	...	71·8	66·5	54·6	58·5	46·0
2	*S*	40·0	39·5	52·5	64·0	57·0	60·8	72·0	57·8	*S*	54·8	40·5
3	46·4	38·0	38·8	*S*	56·5	65·5	*S*	73·0	58·8	51·6	54·2	37·0
4	49·0	40·5	41·0	55·5	56·4	60·5	71·0	74·0	*S*	53·6	52·5	*S*
5	49·3	38·0	47·5	55·0	58·0	*S*	66·7	71·0	67·7	54·8	48·3	44·3
6	46·9	*S*	*S*	57·0	49·5	68·5	75·0	71·3	67·8	48·0	*S*	41·6
7	51·5	42·5	49·2	53·0	45·5	75·5	75·7	*S*	58·5	54·8	54·0	43·6
8	45·6	37·0	48·0	46·8	*S*	76·0	77·4	72·5	60·0	57·0	50·5	41·0
9	*S*	41·0	46·7	46·0	44·7	68·8	69·0	72·5	65·0	*S*	47·8	41·3
10	47·7	36·5	53·0	*S*	47·6	67·7	*S*	73·0	63·8	55·7	51·5	40·0
11	46·8	34·2	49·8	51·5	54·2	80·5	65·5	72·3	*S*	57·5	...	*S*
12	51·5	35·3	49·5	52·2	56·5	*S*	69·7	68·0	68·8	55·6	46·5	34·0
13	46·0	*S*	*S*	45·3	51·0	53·6	69·7	68·8	56·6	55·4	*S*	42·0
14	44·0	35·0	47·0	51·0	59·0	67·0	56·2	*S*	63·8	59·6	43·0	44·3
15	45·2	39·0	46·0	46·0	*S*	70·7	63·0	64·8	61·7	59·6	40·0	31·8
16	*S*	37·0	43·5	51·0	67·5	69·0	63·5	65·0	63·0	*S*	44·0	31·0
17	40·7	34·3	33·0	*S*	66·7	74·0	*S*	67·5	68·0	52·8	35·5	30·0

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers—*continued*.

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
18	40·8	33·0	33·8	54·8	69·6	63·8	64·5	64·8	*S*	55·8	42·5	*S*
19	47·0	35·8	36·3	54·8	69·0	*S*	64·8	75·[illegible]	66·5	59·[illegible]	47·5	[illegible]·5
20	51·8	*S*	*S*	50·5	64·8	58·5	66·[illegible]	72·5	58·5	51·[illegible]	*S*	[illegible]·9
21	47·6	34·8	37·5	45·5	64·0	62·6	67·[illegible]	*S*	63·5	54·5	43·5	34·5
22	40·0	34·8	39·[illegible]	...	*S*	64·5	66·5	75·2	62·5	60·8	35·5	34·0
23	*S*	38·5	38·8	44·0	70·5	68·5	70·[illegible]	63·5	61·5	*S*	34·6	37·5
24	39·[illegible]	35·8	39·0	*S*	72·8	78·0	*S*	66·4	58·0	57·8	41·5	36·8
25	39·7	38·8	...	39·5	74·0	63·0	69·2	66·2	*S*	61·[illegible]	34·4	Christ. Day
26	38·4	40·8	42·6	46·2	74·8	*S*	65·8	62·5	57·[illegible]	64·0	40·[illegible]	26·5
27	38·0	*S*	*S*	48·8	77·8	67·8	67·[illegible]	62·0	...	60·4	*S*	29·0
28	41·0	38·0	48·8	56·0	63·5	64·8	68·0	*S*	...	59·8	43·5	31·9
29	39·5		46·5	43·[illegible]	*S*	68·3	68·8	63·0	58·0	53·5	40·8	28·0
30	*S*		51·0	56·2	62·0	68·5	63·8	67·6	59·6	*S*	51·5	37·0
31	40·3		54·0		57·0		*S*	65·5		54·3		35·0

The letter *S* denotes that the day was Sunday.

ABSTRACT OF THE CHANGES OF THE DIRECTION OF THE WIND, AS DERIVED FROM OSLER'S ANEMOMETER.

By *direct* motion, in the following statements, is meant that the change of the direction of the wind was in the order N., E., S., W., N., &c.; by *retrograde* is meant in the order N., W., S., E., N., &c.

		d	h	
1852.	Dec.	31.	12.	The direction of the wind was S.S.W.
1853.	Jan.	31.	12.	,, ,, S.E., which implies a direct motion of $292\frac{1}{2}°$.
	Jan.	16.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrograde motion in the month of January was $67\frac{1}{2}°$.

		d	h	
1853.	Jan.	31.	12.	The direction of the wind was S.E.
	Feb.	28.	12.	,, ,, W.S.W., which implies a retrograde motion of $247\frac{1}{2}°$.
	Feb.	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Feb.	3.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Feb.	9.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Feb.	14.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of February was $247\frac{1}{2}°$.

		d	h	
1853.	Feb.	28.	12.	The direction of the wind was W.S.W.
	March	31.	12.	,, ,, S., which implies a retrograde motion of $67\frac{1}{2}°$.
	March	15.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	March	21.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	March	26.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of March was $67\frac{1}{2}°$.

		d	h	
1853.	March	31.	12.	The direction of the wind was S.
	April	30.	12.	,, ,, S.S.W., which implies a direct motion of $22\frac{1}{2}°$.
	April	22.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	27.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	April	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of April was $1057\frac{1}{2}°$.

		d	h	
1853.	April	30.	12.	The direction of the wind was S.S.W.
	May	31.	12.	,, ,, N., which implies a direct motion of $157\frac{1}{2}°$.

CHANGES IN THE DIRECTION OF THE WIND—*continued.*

		d	h	
1853.	May	3.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	26.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of May was $877\frac{1}{2}^{\circ}$.

		d	h	
1853.	May	31.	12.	The direction of the wind was N.
	June	30.	12.	,, ,, S.W., which implies a retrograde motion of 135°.
	June	9.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	13.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	20.	8.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	23.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	25.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	29.	8.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of June was 495°.

		d	h	
1853.	June	30.	12.	The direction of the wind was S.W.
	July	31.	12.	,, ,, S.W., which implies no change.
	July	7.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	13.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	27.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrograde motion in the month of July was 720°.

		d	h	
1853.	July	31.	12.	The direction of the wind was S.W.
	August	31.	12.	,, ,, S., which implies a retrograde motion of 45°.
	August	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	7.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	9.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	18.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	22.	2.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	22.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	26.	10.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of August was 1035°.

		d	h	
1853.	August	31.	12.	The direction of the wind was S.
	Sept.	30.	12.	,, ,, S.S.E., which implies a retrograde motion of $22\frac{1}{2}^{\circ}$.
	Sept.	5.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	5.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Sept.	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	14.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Sept.	21.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of September was $337\frac{1}{2}^{\circ}$.

		d	h	
1853.	Sept.	30.	12.	The direction of the wind was S.S.E.
	Oct.	31.	12.	,, ,, S.S.E., but the trace was on the next set of lines downwards, which implies a retrograde motion of 360°.
	Oct.	0.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	7.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Oct.	9.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

CHANGES IN THE DIRECTION OF THE WIND—*continued*.

1853. Oct. 14. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Oct. 18. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Oct. 19. 1. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Oct. 27. 0. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Oct. 27. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Oct. 29. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Therefore the whole excess of retrograde motion in the month of October was 1080°.

1853. Oct. 31. 12. The direction of the wind was S.S.E.
Nov. 30. 12. ,, ,, S.S.E., but the trace was on the next set of lines downwards, which implies a retrograde motion of 360°.
Nov. 0. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Nov. 3. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Nov. 4. 16. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Nov. 6. 22. The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
Nov. 10. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Nov. 28. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of November was 720°.

1853. Nov. 30. 12. The direction of the wind was S.S.E.
Dec. 31. 12. ,, ,, W.S.W., which implies a direct motion of 90°.
Dec. 2. 22. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Dec. 13. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Dec. 18. 8. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Dec. 25. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of December was 90°.
The whole excess of retrograde motion during the year was 675°. = $-1^R.9$

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1853.

1853, Month.	Monthly Amount of Rain collected in each gauge.			
	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.	Cylinder partly sunk in the Ground at the Royal Naval Schools.
	in.	in.	in.	in.
January	1·7	1·8	2·1	2·1
February	1·0	0·8	1·5	1·0
March	1·4	1·4	1·5	1·0
April	3·1	2·9	3·2	3·0
May	1·5	1·4	1·5	1·4
June	2·7	2·6	2·8	2·7
July	6·1	5·2	5·5	5·3
August	2·2	2·1	2·8	2·3
September	2·4	2·2	2·2	2·1
October	4·6	3·8	4·2	4·5
November	1·5	1·4	1·9	1·5
December	0·4	0·5	0·8	0·7
Sums	28·6	26·1	30·0	27·6

The gauges at the Royal Observatory are read at 9h P.M., and the monthly records for the Royal Observatory terminate at 9h P.M., on the last day of every month. The gauge at the Royal Naval Schools is read at noon on the last day of the month, and the monthly record for the Royal Naval Schools terminates at noon on the last day of every month. The results at the two places are not strictly comparable in those instances in which rain has fallen between the hours of noon and 9h P.M. on the last day of the month.

At the end of February, April, June, and December, the gauge at the Royal Naval Schools was not read; but at the end of March, May, and July, the amounts accumulated in the two months were found to be 2·5, 4·4, and 8·3 respectively, and those numbers have been divided proportionately to the falls for the separate months at the Royal Observatory. The fall for December is inferred to be 0in. 7.